Bridge Inspection & Maintenance System (Web 2005)

						:	Bridge In	nspect	tion						
Bridge File Num	ber	00747 -1	Bridge					Form	п Туре			PSR PCS			
Year Built/Year		1964/19	64					Lot N	lo.			1			
Supstr								Inspe	ector N	ame		Dave Lam			
Bridge or Town	Name	SUNNY						Inspe	ector C	lass		BR CLS A			
Located Over		KNEEHI		EK, 3.46	, WAIE	RC	RS-51	Assis	stant Na	ame					
Located On		582:04 C	1 33.896					Assis	stant C	lass					
Water Body CI./	Year							Inspe	ection D	Date		15-Jul-2011			
Navigabil. Cl./Ye	ear	05 050			00.14/41			Data	Entry I	By		Marcia Chav	/ez		
Legal Land Loca		SE SEC	13 TVP	31 RGE :	26 7741	/I		Data	Entry I	Date		15-Aug-201	1		
Longitude, Latitu	lae	-113:33:	32, 51:38	:57	 \			Revie	ewer N	ame		John O'Brier	n		
Road Authority		Alberta	ransporta	ation (AI I	1)			Revie	ew Dat	е		27-Jul-2011			
Clear Baadway	Area							Dept.	. Revie	wer Na	ame	Chris Black			
	Skew	9.17	10 (4)					Dept.	. Revie	w Date	Э	30-Aug-201	1		
AAD1/Year		RCU-2019-110						Follo	w-Up E	By					
Detour Length (I	(m)	6						-							
Allowable Load	(t): Sin	gle			Semi	Train> On Cri > Critical						> On Critic	al Spans		
Design Loading:		HS20												> Primary	Span
						Po	osting Ir	nforma	ation					2 Thinking (Span
Required Load F	Posting	(t)		Single				S	Semi				Truc	k Train	
Posted Loading	ading (t) Single							S	Semi			Truck Train			
Posted:	Lane	EB At Junction (N)	No	h	In Advance (Y/N)		No	At Bridge (Y/N)		No	
Posted:	Lane	WB At Junction (Y			tion (Y/I	N)	No	h	n Adva	ince (Y	′/N)	No	At Bridge (Y/N) No		No
Remarks	s Not required.														
Hazard Marker A	At Bridg	Bridge (Y/N) Yes													
Remarks		Too low, not to standa				d. M	ounted o	on timb	ber gua	ardrail p	oost	at 4 corners.			
Other Sign Type	S														
						Ut	ilities (L	ocate	ed at)						
Utility Attachmer	nts	S						1							
Telephone	South	h of bridge.						Gas							
Power	2 wire	40 m No	rth of c/l.						cipal						
Others								Problem (Y/N) No							
Remarks							A								
					1	ast	Now	Evola	zo anatio	n of Co	ondi	tion			
Horizontal Align	ment					7	7	At bo	ottom of	f sag c	urve	No passing	in bot	h directions w	ith limited
Vertical Alignme	nt					6	6	sight	distan	ce.	arro	. No pacong			
Roadway Width	(m)		10.000					Crac	k throu	ah ACI	Pat	abuts.			
Approach Bump	(,		1.0.000			7	4	Smal	ll potho	les in \	WBL	, E approach	(phot	to).	
Guardrail (Y/N)			Yes				_								
Guardrail						6	6	1							
Length (m)			15.500												
Current Stand	ard (Y/	N)	No					Insuff	ficient	posts/s	spaci	ng (photo).			
Termination T	ype	,	TURN	DOWN											
Drainage						6	6	SE co Brida	oncrete le on sl	e troug light ar	h cra ade:	acking (photo drains to E e). end.		
Approach Road	d Gene	ral Ratin	g			6	6			<u> </u>	- 1				

					Supers	tructure					
Bridge Com	ponent			Last	Now	Explanation of Condition					
(Primary Spa	an : PM, 3 Spa	ns, Length	s(m): 12.8-15.2	2-12.8, A	-Ident	Number:)					
Special Feat	tures				-						
Special Feat	ure				X	_					
(Type :)					1						
Special Feat	ure				X						
(Type :)											
Wearing Surf	face/Deck Top	Detail Ratir	ngs								
	N (%)	1 (%)	2 (%)	3 (%)							
Last											
Now	0.0	0.0	0.0	0	0.0						
Wearing Sur	face			7	7						
(Material T	vpe : ACP - C	ONVENTIO	NAL CHIP SEA		-)						
(Thickness	(mm) : 50)				,						
Lateral Conn	ection Probler	m No									
Deck Top				N	N						
Deck Rideab	oility			7	7						
	.,										
Deck Joints				N	X	Paved over but cracked (photo)-typical. Curb cover plate ato piers removed & replaced with KOCH int mat					
Temperatu	re (deg. C)	23				(photo), typical all pier jnts. at curb.					
(Expansion	n Type :)					Curb portion of jnts rated.					
(Fixed Type	e : WATER SI	FOP)				-					
Gap Size (mm)	Ga	b Location			-					
W. abut						-					
W. pier						-					
E. pier						_					
		E. a	abut			_					
						_					
Deck Draina	ge			7	4	Drains to E end.					
Drains Clog	gged (Y/N)	No				One deck drain at S side only, causing hsip erosion.					
Curbs/Media	n			4	4	Both curbs small corrosion delam - photo.					
(Curb Type	e : Standard)										
Scaling (Pe	ercent Area)	0									
Bridge Rail				7	7						
(Type : GA	LVANIZED S	TEEL FLEX	BEAM)			Double layer w-flexbeam.					
Bridge Rail F	Posts			7	7	1					
(Type : GA	LVANIZED PO	OST STEEL	;GALVANIZED	POST							
Bridge Rail/P	Posts Coating			7	7	White paint over galvanize failed - no problem.					
Sidewalk				X	Х						
Girdor Dotoil	Patingo										
Girder Detall	N (count)	1 (count)	2(count)	2 (00)	unt)						
Last		r (count)		5 (000	(iiii)						
Now	0	0	0		1						
Circlere	U	U	0			C2O4 short remark in A0 st D4					
Girders	AZ /N I)			/	3	S2G1 short narrow crack in A2 at P1. S2G1 med. crack with corroding strand near P1 (photo).					
	T/IN)	Yes									
Spailing (P	Oirders (11)	0				-					
usumper ()f (

					Supers	tructure
Bridge Comp	oonent			Last	Now	Explanation of Condition
(Primary Spa	n : PM, 3 Spa i	ns, Lengths	m): 12.8-15.2-	12.8, A	-Ident	Number:)
Diaphragms/0	Cross Frame			X	X	
Bearings				7	7	
Temperatur	e (deg. C)	24				
(Expansion	Type : NEOP	RENE STRIF	BEARING)			
(Fixed Type		E STRIP BE	ARING)			
Coating Ad	equate (Y/N)	Yes				
Functioning	(Y/N)	Yes				
Deck Undersi	ide			7	7	
Stains (Per	cent Area)	1				
Span Alignm	ent Problems	<u> </u>				
Vertical (Y/I	N)	No				
Horizontal (Y/N)	No				
Superstructu	ure General R	ating		7	3	
					Supers	tructure
Bridge Com	oonent			Last	Now	Explanation of Condition
(Secondary S	Span : PE)					
Special Feat	ures					
Special Feature	ire				Х	
(Type:)						
Special Feature					X	
(Type:)					~~~~	
Wearing Surf	ace/Deck Top	Detail Rating	19			
	N (%)	1 (%)	2 (%)	3 (%)		
l ast	14 (70)	1 (70)	2 (70)	0 (70)		
Now	0.0	0.0	0.0	0	0	
Wearing Surf	ace	0.0	0.0	7	7	
(Material Ty					Г) Г)	
(Thickness)	(mm) · 50)				/	
Lateral Conne	ection Problem	n No				
(Y/N)						
Deck Top				N	N	Paved over but cracked over abuts/piers - photo.
Deck Rideabi	lity			7	7	
Deck Joints					N	Paved over.
Bump (Y/N)						
Deck Drainag	je			7	7	Drains to East end due to grade.
Drains Clog	ged (Y/N)	No				
Curbs/Mediar	า			7	6	
(Curb Type	: Standard)					
Scaling (Pe	rcent Area)	0				
Bridge Rail				7	7	Double layer w-flexbeam.
(Type : GAI	LVANIZED ST	EEL FLEX	BEAM)			
Bridge Rail P	osts			7	7	
(Type : GAI STEEL)	LVANIZED PC	OST STEEL;	GALVANIZED	POST		
Bridge Rail/P	osts Coating			7	7	White paint over galvanize failed - no problem.
(Type : GAI						
Sidewalk	/			X	X	

						Supers	tructure
Bridge Comp	ponent				Last	Now	Explanation of Condition
(Secondary S	5pan : PE)						
Girder Detail	Ratings						
	N (count)	1 (cou	unt)	2 (count)	3 (cou	int)	
Last							
Now	0		0	0		0	
Girders					4	4	All girders have typical flexural cracks.
Last Complet	e Inspection D	Date	11-Jul-2	2011			S3G1 - leg honeycomb. S3G2 - short med longitudinal crack in one leg outside AZ
Cracking (Y	′/N)		Yes				S1G1 - short wide longitudinal crack in one leg outside AZ due to
Spalling (Pe	ercent Area)		0				deck drain-photo. S1G10 - short med crack in one leg extending into AZ-photo
Lift or Connec Grouted (Y/N	ctor Pocket		Yes				S1G1-2,10; S3G1-2,10-11 - all have rust spot corrosion in legs. Curb visible only.
(Number Of C	Girders : 22)						
Span Alignm	ent Problems	5					
Vertical (Y/I	N)		No				
Horizontal (Y/N)		No				
Superstructu	ure General R	ating			4	4	
•		U					
						Subst	ructure
Bridge Comp	onent				Last	Now	Explanation of Condition
Abutments		() (())	•••				
(Extended Backwall Piles (Y/N) : N)							
(Extended Backwall Piles Spacing(mm) :)							
(I otal Number of Caps/Corbels : :)							Light scaling @ staining of abut caps.
Bearing Seats	s/Caps/Corbel	s Deta	Il Rating	s o ()	0 (
	N (count)	1 (COL	unt)	2 (count)	3 (COU	int)	
Last	0		0	0		0	
NOW	U V Cara (Carbal		0	0	-		
Bearing Seats/Caps/Corbels					5 5		
(Type . COI	NCREIE)						
(Depth(mm)).))						
	· .)				<u> </u>	0	
	astwalls		2.00		0	0	
	eigni (m)	·	2.00		7	7	
wingwalls					'	'	
(Total Numbe	er of Bearing P	riles : 0):0)				
Piles Detail R	atings						
	N (count)	1 (cou	unt)	2 (count)	3 (cou	int)	
Last							
Now	100		0	0		0	
Piles					N	N	
Paint/Coating					X	X	
Abutment Sta	bility				8	8	
Scour/Erosior	n				4	3	Hslp erosion caused by deck drainage (photo); worst at E hslp.

Alberta Transportation

						Subst	ructure
Bridge Comp	onent				Last	Now	Explanation of Condition
Piers/Bents							
(Type : PIE	R-SOLID)						1mm wide vertical cracks.
(Total Numbe	er of Caps/Cor	bels :	:)				Cracked & spalled under G1 at P2 (photo).
Bearing Seats	s/Caps/Corbe	ls Deta	il Rating	gs			-
	N (count)	1 (cou	unt)	2 (count)	3 (co	unt)	
Last							
Now	0		0	0		0	
Bearing Seats	s/Caps/Corbe	ls			6	4	
(Type : COI	NCRETE)						
(Total Numbe	er of Bearing F	Piles : 0):0)				
Piles Detail R	atings			a ()	a (-
	N (count)	1 (COL	unt)	2 (count)	3 (COI	unt)	-
	100		0	0		^	
Dior Shoft/Dil		<u> </u>	0	0	6	6	Too high to measure.
Crostost H	es pight (m)				0	0	
Bracing/Strute	signi (m)				Y	Y	
Dracing/Strut	s/oneauning						
Nose Plate	Nose Plate						
Paint/Coating					5	4	Spot corrosion/pitting.
(Colour Description :)							Medium scaling.
(Colour Code :)							
Pier Stability	Pier Stability					8	
Scour					N	N	
Debris (Y/N)			No				
Substructure	e General Rat	ting			4	4	
						Structu	re Usage
						Now	Explanation of Condition
Channel							
(U/S Direction	n : S)						
(D/S Direction	n : N)						
Alignment					7	7	
Bank Stability	1				8	8	
HWM (m belo	w Top of Cur	b)					HWM not visible.
Drift (Y/N)			No				
Slope Protect	ion				4	3	E hslp with deep erosion gully from deck drain.
(Type : NA	FURAL; NAT	URAL)				1	
Guidebank/S	purs				X	X	
Adequacy of	Opening				9	9	
(Fish Comper	nsation Measu	ure 1 : I					
(Fish Comper	nsation Measu	ure 2 : I	NONE)			-	
Channel Ger	neral Rating				4	3	

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Bridge Inspection & Maintenance System (Web 2005)

00747 -1 Bridge

								39	Inspection Cycle (Default) (months)
			10	18-Mar-2005	Inspection Date	Previous		15-Oct-2014	Next Inspection Date
					Assistant's Name	Previous		Dave Lam	Previous Inspector's Name
									Proposed Action
									On 3-Year Program (Y/N)
									Proposed Long-Term Strategy
	0	stimated Total	Ш		Date				Maintenance Reviewed By
					Department Comments			acking.	Special Monitor PE girder cro Comments for Next Inspection
Se	ld. (Y/N) Y	Maint. Req	2020	Est. Repl. Yr	65.5/54.7	Sufficiency Rating (Last/Now) (%)	8.9	w) 44.4/3	Structural Condition Rating (Last/No (%)
						sracked/spalled pier seat under s; seal caps.	Patch bearing	2011	OTHER ACTION
						E approach potholes in WBL.	Patch	2011	OTHER ACTION
						ssessment at PM girder (S2G1) to ine severity of corrosion/cracking & procedure - repair as necessary.	LvI 2/a determ repair	2011	OTHER ACTION
						deck drains to keep from leaking onto	Extend legs.	2011	OTHER ACTION
						de guardrail to meet std.	Upgrae	2011	OTHER ACTION
						all all HMs to meet std.	Reinst	2011	OTHER ACTION
									REMOVE DRIFT ACCUMULATION
						ass I.	3m3/C	2011	PLACE ADDITIONAL RIP RAP
						headslope erosion channels by og Class I rock as required.	Repair installi	N 2011	REPAIR ABUTMENT SCOUR/EROSIC
									SHOTCRETE REPAIRS
								2011	WASHING
									RESET/ PAINT BEARINGS
						ack over jnts. Consider new jnts to girders.	Seal ci protect	2011	REPAIR/REPLACE DECK JOINTS
									OVERLAY DECK
									SEAL DECK
									PATCH DECK
						small delam in both curbs, center span, curbs.	Patch seal al	2011	SEAL CURBS
									GALVANIZE/PAINT BRIDGE RAIL
				2					REPAIR/REPLACE BRIDGE RAIL
Cat #	Est. Cost	Target Year		ments	Department Com	tor Comments	Inspec	Year	Inspector Recommendations
					lations				

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Comment

					Maint	enance Recommend	dations						
Inspector Recom	mendations	Y	/ear	Inspecto	or Comments		Department C	Cor	mments		Target Year	Est. Cost	Cat #
REPAIR/REPLAC	E BRIDGE RAIL												
GALVANIZE/PAI	NT BRIDGE RAIL												
SEAL CURBS		2	2011	Patch si seal all	mall delam in bot curbs.	h curbs, center span	, Defer until rel	ehat	b				
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLAC	E DECK JOINTS	2	2011	Seal cra	ack over jnts. Cor girders.	nsider new jnts to	Defer until rel	ehat	b				
RESET/ PAINT B	EARINGS												
WASHING		2	2011										
SHOTCRETE RE	PAIRS												
REPAIR ABUTM	ENT SCOUR/EROS	ION 2	2011	Repair h	neadslope erosio g Class I rock as	n channels by required.	Defer until rel	ehat	b				
PLACE ADDITIO	NAL RIP RAP	2	2011	3m3/Cla	ass I.		Defer until rel	ehat	b				
REMOVE DRIFT	ACCUMULATION												
OTHER ACTION		2	2011	Reinsta	II all HMs to meet	t std.	To operations	IS					
OTHER ACTION		2	2011	Upgrade guardrail to meet std.			To operations	IS					
OTHER ACTION		2	2011	Extend legs.	deck drains to ke	ep from leaking onto	Defer until rel	ehat	b				
OTHER ACTION		2	2011	Patch S	E concrete troug	h where cracked.	Defer until rel	ehat	b				
OTHER ACTION		2	2011	Lvl 2/as determii repair p	sessment at PM ne severity of cor rocedure - repair	girder (S2G1) to rosion/cracking & as necessary.	Defer						
OTHER ACTION		2	2011	Patch E	approach pothol	es in WBL.	Defer until rel	ehat	b				
OTHER ACTION		2	2011	Patch ci bearing	racked/spalled pi s; seal caps.	er seat under	Defer until rel	ehat	b				
Structural Cond (%)	ition Rating (Last/N	low) 4	4.4/38.	.9	Sufficiency Ra (%)	ting (Last/Now)	65.5/54.7		Est. Repl. Yr	2020	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor PE girder c	racking.					Department Comments	R	Rehab tentatively pro	ogramm	ed for 2016. AS	3	
Maintenance Rev	viewed By	Andrew	Smikle	s			Date	2	2-Aug-2012		Estimated Tota	al O	
Proposed Long-T	erm Strategy												

On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Dave Lam	Previous Assistant's Name	
Next Inspection Date	15-Oct-2014	Previous Inspection Date	18-Mar-2005
Inspection Cycle (Default) (months)	39		
Comment			