						В	ridge Ir	nspe	ction							
Bridge File Number 74233 -1 Bridge									Form Type			SG				
Year Built/Year 1967/1967								Lot No.			2					
Supstr									Inspector Name			Jason Saly				
Bridge or Town Name VINCA BRIDGE									Inspector Class			BR CLS A				
Located Over		NORTH S	SASKAT(CRS-ST	CHEWAN	N RIVER,	ER, 6,			Assistant Name							
Located On		38:10 C1							Assistant Class							
Water Body CI./	Year							Inspection Date			24-Jan-2013					
Navigabil. Cl./Year									a Entry			Marcia Chavez				
Legal Land Location NW SEC 31 TWP 56 RGE 2									a Entry			07-Mar-2013				
Longitude, Latitude -112:58:30, 53:53:18									Reviewer Name			John O'Brien				
Road Authority		Alberta T	ransporta	ation (AIT	-)				view Da			13-Feb-201				
Contract Main. A	Area	CMA14							Dept. Reviewer Name			Brent Herric				
Clear Roadway/	Skew	8.5 /						· · ·	ot. Revie		te	13-Mar-2013	3			
AADT/Year		1,380 / 20	011 (A)					Foll	ow-Up	Ву						
Road Classificat	tion	RAU-209	-110													
Detour Length (I	km)	83														
Allowable Load	(t): Sin	gle CS1 GIRI				CS2 67 GIRDER				Train		S3 74 RDER		> On Critical Spans >Critical Member		
Design Loading:		HS2	0											> Primary	Span	
						Po	sting Ir	nforn								
Required Load F		(t)		Single					Semi					k Train		
Posted Loading	(t)			Single					Semi			Truck Train				
Posted:	Lane	EB			tion (Y/N)	(Y/N) No		In Advance (Y/N)		No	At Bridge (Y/N)		No			
Posted:	Lane	WB		At Junct	tion (Y/N))	No	In Advance (Y/N)			No	At Bridge (Y/N)				
Remarks		quired.														
Hazard Marker At Bridge (Y/N) Yes																
Remarks HMs are spring loade							g stra	aight at	E end	•						
Other Sign Type	es		North S	ask Rive	r, Vinca b		÷									
							lities (L	ocat	ted at)							
Utility Attachme		ELEPHON		HES-PH	ONE LIN	E		Can								
Telephone	Cond	uit along c	atwalk						Gas							
Power									Municipal Problem (Y/N) No							
Others	Fiber	optics U/S	in South	r/w.				Pro	DIEM (Y	/N)	No					
Remarks							Approa	ch R	oad							
					La		Now		lanatio	on of (Condi	tion				
Horizontal Align	ment					5	6	Cur	ves to b	oridge			sing c	on East end. Jo	ct with SH830	
Vertical Alignme						7	7	200m East.			-					
Roadway Width			10.800					Pot	hole @	SE.						
Approach Bump	· /				Ę	5	5									
Guardrail (Y/N)			Yes					99.0m @ NE.								
Guardrail			6	6	6	Insu	ufficient	posts	@ 1.0	6m spacing. I ACP to rail c	Not th	rie beam trans	sition. (SE rail			
Length (m)		43.000					100	1010, 40	Unin	10p 01		1. UOL	0002010).			
Current Stand	ard (Y/	N)	No					1								
Termination T		,	Turned	Down				1								
Drainage					7	7	N		(Hole @ NW has been repaired. Verified with Chris Bl 18Feb2012).				with Chris Bla	ck.		
Approach Road	d Gene	eral Rating	3			5	5									

Superstructure													
Bridge Com	ponent						Explanation of Condition						
		ans, Ler	ngths(I	m): 49.7-62.5-			7, A-Ident Number: A0555-01)						
Special Feat	ures												
Special Featu	ure					Х							
(Type:)													
Special Featu	ure					Х							
(Type :)													
	ace/Deck Top	Detail F	Ratings	6									
U	N (%)	1 (%)	U	2 (%)	3 (%)								
Last	2	()	0		15	Snow covered.						
Now	5.0	0.	.0	0.0	5	5.0	Show covered.						
Wearing Surf	ace				3	3	Chipseal on epoxy on HDOL.						
		ETE - C	ONVE	NTIONAL CHI	P SEA	L	152m2 of lost seal coat (2012 Lvl 2 deck inspection). 1815m2 of debond or lost epoxy.						
COAT)							63m2 fo debonded HDOL.						
(Thickness	(mm) : 50)						Significant o/I patching,78m2 (2012 LvI2 deck inspection).						
Deck Top					N	N							
Deal Distant						-							
Deck Rideab	IIIty				4	5							
Deck Joints					7	5							
Temperatu	re (dea. C)	-	10										
· · · · ·	Type : FINGE						-						
(Fixed Type							-						
Gap Size (r			Gap I	ocation			-						
99		_		Abutment									
85				Abutment			-						
							-						
							-						
							-						
Deck Drainag	ne				5	4	(Ponding 2 gutters at south S2,4,5 & north S3. 16Jul2008) - Not						
Drains Clog		N	٩o				visible ths inspection.(
Drains Olog	gea (I/I)	'	•••				Heavy accumulations of road sands in gutters. 18Feb2012). Staining at underside near abut deck drains; scuppers look new so						
							no action.						
Curbs/Media	n				4	N	(Curb delam @ construction joint near mid span exposing water sto						
(Curb Type	: Standard)						North curb - photo. Accident damage @ both posts from SW repaired rail but not curb, affecting post anchorage - photo. 13Aug2009).						
Scaling (Pe	ercent Area)	2	2				(50% Covered in roads sands. 18Feb2012).						
Dridge Dell							Spall at curb exterior near post.						
Bridge Rail			EDTIO		4	4	(Numerous areas of minor bends in vertical. 13th post from SW bent 40mm, similar @ 21st post from SW) - temporay repair done with 2						
	LVANIZED ST		ERTIC	AL BAR)			parallel sections of flexbeam. (Minor bends. 18Feb2012).						
Bridge Rail P						N							
STEEL)	LVANIZED P(5151	EEL;G	ALVANIZED I	-051								
Bridge Rail/P	osts Coating				7 7								
	LVANIZED)												
Sidewalk					X	X							
Girder/Beam													
Cover Plate					X	X	Catwalk inaccessible security gate and access have been						
Flange					3	3	compromised, blocked with steel sheeting and barb wire.						
Web					7	7	Crack in Web/Flg weld @ West Abut						
							Long. Stiff Splices with cracks						
Stiffeners					3	3	Girder bolted splices have corrosion damage from bird droppings. 18Feb2012) - Crack repairs complete Summer 2012.						
Splice					4	4	Only end spans seen up close.						
Weld					3	3							

Alberta Transportation

		S	Supers	tructure					
Bridge Component				Explanation of Condition					
(Primary Span : WG, 5 Spans	, Lengths(m): 49.7-								
Diaphragms/Cross Frame		3	3	(Cracks in Flg Plates and Flange Gusset Plates. 18Feb2012).					
Paint Condition		3	4	A lot of graffiti on both sides of exterior girders. Approx 5% paint					
(Colour Description :)				failure, primarily bottom flanges - monitor, no action required.					
(Colour Code :)				Green.					
Touchup Required (Y/N)	No								
Bearings			5	West bearings expanded 30mm over 0. Grout pad corner cracked at					
Temperature (deg. C)	-4		-	W abut, N bearing (photo).					
(Expansion Type : ROCKER	BEARING)			Abutment brgs have onset of coating failure.					
(Fixed Type : PINNED BEAF									
Coating Adequate (Y/N)	No								
Functioning (Y/N)	Yes								
Deck Underside		4	5	Leaching through curb joints resulting in delams and occassional					
Stains (Percent Area)	4			spalls on soffits. Transverse cracks & leaching under travel lanes. (Corrosion stains. 18Feb2012).					
Span Alignment Problems									
Vertical (Y/N)	No								
Horizontal (Y/N)	No								
Superstructure General Rati	ng	3	3	Crack repair crews on-site at time of inspection.					
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments			1						
Bearing Seats/Caps		6	6	-					
(Type : CONCRETE)			1						
Backwalls/Breastwalls		6	6	Narrow cracks.					
Wingwalls		6	6	Coating is blistering, scaling.					
Piles		N	N						
Paint/Coating		4	4	Pigment sealer peeling; minor light scaling - no action required.					
Abutment Stability		5	5						
Scour/Erosion		4	4	(Erosion @ NE Headslope. 18Feb2012) - Snow covered.					
D '									
Piers/Bents (Type : PIER-SOLID)									
Bearing Seats/Caps		7	6						
(Type : CONCRETE)									
(Total Number of Bearing Piles	s : 0:0:0: 0)								
Pier Shaft/Piles		7	6						
Bracing/Struts/Sheathing		X	X						
Nose Plate		5	6	Rust nose plates.					
Paint/Coating		5	4	Graffiti at P1 & P4.					
(Colour Description :)		0		Nose plates corroding, no action.					
(Colour Code :)									
Pier Stability		7	7						
Scour		N	N	Iced over.					
Debris (Y/N)	Yes			Minor drift at E pier.					
, ,									

Substructure										
Bridge Component		Last No		Explanation of Condition						
Substructure General Rating		5	5							
		9	re Usage							
		Last	Explanation of Condition							
Channel	11									
(U/S Direction : S)										
(D/S Direction : N)										
Alignment		7	7							
Bank Stability			7							
HWM (m below Top of Curb)	9.0			(16/July/2008)						
Drift (Y/N)	Yes			@ Pier 4.						
Slope Protection		5	6							
(Type : NATURAL; NATURAL	.)									
Guidebank/Spurs		Х	X							
Adequacy of Opening		8	8							
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	6							

Alberta Transportation

Maintenance Recommendations													
Inspector Recomm	nendations		Year	Inspecto	or Comments		Department Con	nmen	ts	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL			2013		en slats, discretionary, and c ent repairs.	complete							
GALVANIZE/PAINT BRIDGE RAIL													
RETROFIT BRIDGE RAIL													
SEAL CURBS			2013	Patch sp	balls after full inspection.								
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLACE DECK JOINTS													
RESET/ PAINT BEARINGS													
REPAINT SUPERSTRUCTURE													
STRAIGHTEN/RE	STRAIGHTEN/REPLACE MEMBERS												
WASHING	WASHING												
SHOTCRETE RE	PAIRS												
REPAIR ABUTMENT SCOUR/EROSION													
PLACE ADDITION	NAL RIP RAP												
REMOVE DRIFT ACCUMULATION			2013	Remove	minor drift.								
OTHER ACTION			2013	Reset E	HMs.								
OTHER ACTION			2013	Install re	etro-fit drain, if not yet done.								
OTHER ACTION			2013	Upgrade	e approach guardrail to meet								
OTHER ACTION			2013	Conside	r chipcoat overlay on deck.								
OTHER ACTION	OTHER ACTION			Repair h not yet d	ole in NW corner fo appraod lone.								
OTHER ACTION			2013	Fill NE e	erosion gully.								
Structural Condition Rating (Last/Now) (%)			44.4/44.	4	Sufficiency Rating (Last/I (%)	Now)	49.2/48.9	Est	t. Repl. Yr	2034	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor paint condit	tion.	in.				Department Comments						
Maintenance Rev	iewed By						Date				Estimated Total	I 0	
			er widen	ing with th	he deck replacement. RS							·	
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name E			val		Previous	s Assistant's Name							
Next Inspection D	ate	24-Oct	-2014		Previous	us Inspection Date 18-Feb-2012							
Inspection Cycle (Default) (months) 2													
Comment													