						Е	Bridge I	nspe	ction							
Bridge File Numl	oer	09551 -	1 Bridge						m Type			TH SG				
Year Built/Year		1959/19							No.			1				
Supstr								Ins	oector Na	ame		Owen Salav	a			
Bridge or Town N				D 0 14/4	TEDOO		т	Ins	pector CI	ass		BR CLS A				
Located Over			EER RIVE	R, 3, WA	TERCK	(5-5	1	Ass	istant Na	ame						
Located On		27:10 C	1 23.976					Ass	istant Cl	ass						
Water Body Cl./								Ins	pection D	ate		25-Oct-2012				
Navigabil. Cl./Ye		CVV CE	2 4 F TWD	24 DOE	. 04 10/41	N /		Dat	a Entry E	Зу		Marcia Chav	ez_			
Legal Land Loca Longitude, Latitu			C 15 TWP		21 7741	IVI		Dat	a Entry [Date		08-Nov-2012	2			
			:12, 51:39 Transport		т\			Rev	iewer Na	ame		John O'Brier	1			
Road Authority Contract Main. A		CMA20	Transport	alion (Al	1)			Rev	iew Date	9		29-Oct-2012				
Clear Roadway/S		7.3 /						Dep	ot. Revie	wer Na	ame	Andrew Smi	kles			
AADT/Year	Skew		2011 (A)						ot. Revie		•	19-Nov-2012	2			
	ion		` ,					Foll	low-Up B	y						
Road Classification Detour Length (kg)		46	1.8-110													
Allowable Load (1 32		Semi	C 9	S2 57		7	Γrain	Ce	 3 74		> On Critic	nal Snor	ne
Allowable Load (19. 3111	ST	RINGER		Selliii		RINGE	R		ITAIII		RDER		>Critical N	lember	115
Design Loading:		HS	20											> Primary	Span	
						Po	sting I	nforr	nation							
Required Vert. C			<u> </u>													
Posted Vertical C	Clearar		,	Yes									ı			
Posted: Lane	EB		Bridge (m)		In Advar	nce	(Y/N)	Yes	Lane	WB	О	n Bridge (m)	5.3	In Advance	(Y/N)	Yes
Remarks									ı			1	1			
Required Load Posting (t) Single							Semi			Truck Train						
Posted Loading (t) Single								Semi			Truck Train					
Posted: Lane EB At Junction (tion (Y/I				In Advance (Y/N)		No	At Bridge (Y/N) No					
Posted:	Lane	WB		At Junc	tion (Y/I	Y/N) No		In Advance (Y/N)		No At Bridge (Y/N) No						
Remarks	Not re	quired.	_													
Hazard Marker A	t Bridg	ge (Y/N)	Yes													
Remarks																
Other Sign Type	S		Brake (Check at	Hills, 69				rves, 85	km/hr,	info					
						Ut	ilities (Loca	ted at)							
Utility Attachmen	its															
Telephone						Gas										
Power									Municipal Problem (Y/N) No.							
Others						Problem (Y/N) No										
Remarks							Approa	ch-F	load —							
					ı	ast	Now		oad olanation	of Co	ondi	tion				
Horizontal Alignr	nent					4	4					ridge on 6% g	ırade			
Vertical Alignme						4	4	Clir	nbing lan	e on b	oth	directions. Sig	gnage	e in place.		
Roadway Width			11.000													
Approach Bump	,		11500			7	7									
Guardrail (Y/N)			Yes					Pos	st spacino	g inco	rect.	Rust at some	e gua	rdrails.		
Guardrail						5	5		-1		•		ح.د			
Length (m)			45.000													
Current Standa	ard (Y/I	N)	Yes													
Termination Ty		,		D DOWI	N											
Drainage				2.1.		4	4	Ero	sion @ s	tream	bed	of SE man-m	ade d	itch.		
								-								
Approach Road	Gene	ral Ratii	ng			4	4									

						Supers	tructure					
Bridge Comp	onent				Last		Explanation of Condition					
		ıs, Len	gths(n	n): 27.4-61-61	27.4, <i>F</i>		Number: A0301-02;A0301-03;A0301-01;A0301-04)					
Special Feat	ures											
Special Featu	ıre					Х						
(Type:)												
Special Featu	ıre					X						
(Type :)												
Wearing Surfa	ace/Deck Top	Detail I	Ratings									
	N (%)	1 (%)		2 (%)	3 (%)							
Last	5	()	0		0						
Now	5.0	0	.0	0.0	0	0.0						
Wearing Surf	ace/Deck Top				5	5	Chip coat on top of epoxy.					
(Material Type : CONCRETE - CONVENTIONAL CH COAT)						L	Deck cantilevered and reduces deck from 5 girders to 3. Long crk @ S1 Bay 6 to 9 on EB gutter - no punchout to date.					
(Plank Thickness(mm) : 50)												
(Plank Widt	:h(mm) :)											
Deck Rideability					7	7						
Deck Joints					3	3	(P1 - missing 4 curb COV PL bolts.					
Temperatur	re (deg. C)	-	4				P2 - missing 2 curb COV. PL bolts. P3 - missing 2 curb COV PL bolts. 17Feb2009). Snow covered.					
(Expansion OR SLIDIN	Type : ARMO G PLATES))	URED	GLAN	D (WABO UN	DER FI	INGER	P1 & 3 seals appear to leak. P1 has pothole along paving lip & 1 missing cover plate bolt was					
(Fixed Type	e:)						viewed.					
Gap Size (r	nm)		Gap L	ocation			E. pier (P3) 77mm.					
95			W pie	r (P1)								
70			C pier	(P2)								
Curbs/Wheel	Guards				N	N	(30% medium scaling with random wide cracks on curbs. Heavy					
(Curb Type	: Standard)						scaling at all parapets. Exposed curb rebar, open curb joints & spalled external at numerous locations. 17Feb2009). Snow covered.					
(Type : COI	NCRETE)						·					
(Curb Heigh	nt(mm) : 300)											
(Width(mm)) : 250)					_						
Bridge Rail					4	4	Cracked weld throughout. 10% of stitched welds cracking due to corrosion stresses.					
	DGE TUBE)											
Bridge Rail P					4	4	(Concrete base for posts cracking / delam. 17Feb2009). Base snow covered.					
`	ST STEEL;PO	ST STI	EEL)			1						
Bridge Rail/P					4	4	Paint failure on all surfaces. Blistering @ rail to truss connections.					
(Type : PAI	NT)											
Sidewalk					X	X						

				Supers	structure
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : TH, 4 Spa	ns, Length	s(m): 27.4-61-6	61-27.4,	A-Ident	t Number: A0301-02;A0301-03;A0301-01;A0301-04)
Wide Load Damage (Y/N)	Yes				See UT 2008 for all details.
High Load Damage (Y/N)	Yes				There are many dents and nicks that are minor.
Top Chord			7	7	
Batter Posts			6	6	
Sway Bracings			5	5	
Diagonals			6	6	(There are 5 missing bolts at random locations. 17Feb2009).
Verticals			6	6	Corrosion at ends
Portals			4	5	
Connections			4	4	
Floor Beams			5	5	
Bottom Chord			6	6	Heavy corrosion at top flange of exterior stringers
(No. of Stringers : 50;50)					
Stringer Detail Ratings					
N (count)	1 (count)	2 (count)	3 (co	unt)	
Last					
Now				1	
Stringers			4	4	
(Type : STEEL)					
(Width(mm) : 200)					
(Depth(mm) : 460)					
(Spacing(mm) : 1639)					
Paint Condition			3	3	Superfiscial rust on btm flanges. 15% corrosion in splash zone. Bearings need painting.
(Colour Description :)					
(Colour Code :)					
Touchup Required (Y/N)	No			_	
Bearings			4	4	(Splash zone and bottom chord or trusses painted with bridgecote in July/92).
Temperature (deg. C)	-4				(P1 S bearing is misaligned 50mm - photo. 21Dec2010) - Snow
(Expansion Type : PINNE		IG)			covered. Exp=P2; Fixed=P1,3.
(Fixed Type : ROCKER E					_
Functioning (Y/N)	Yes			_	
Sub Deck/Deck Underside			3	3	Exposed rebar on U/S along exteriors
(Material Type : CONCR					
(Plank Thickness(mm) : 1	150)				
(Plank Width(mm):)					
Defects (Percent Area)	20				
Span Alignment Problem					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General F	Rating		3	3	
				Supers	structure
Bridge Component					Explanation of Condition
(Secondary Span : RB)			Lust		
Special Features					
Special Feature				X	
(Type:)					1
Special Feature				X	1
(Type:)					1
(190.)					

					Supers	structure
Bridge Com	ponent					Explanation of Condition
(Secondary S	•	'				
	face/Deck Top	Detail Rating	s			
	N (%)	1 (%)	2 (%)	3 (%)		
Last	5	0	0		0	
Now	5.0	0.0	0.0	0	0.0	
Wearing Sur	face		•	6	6	Chipcoat on top of epoxy.
	ype : CONCRI	ETE - CONVE	ENTIONAL CH	IP SEA	L	
(Thickness	(mm) : 50)					
Deck Top	, ,			N	N	
Deck Rideab	ility			7	7	
Deck Joints				5	5	All joints appear to still leak.
Temperatu	re (deg. C)	-4				
(Expansion OR SLIDIN	n Type : ARMO IG PLATES))	OURED GLAN	ID (WABO UN	IDER FI	INGER	
(Fixed Type	e:)					
Gap Size (mm)	Gap	Location			Koch joint at Abut 2
78		W. al	out (A1)			Rout Joint at Abut 2
		E. ab	ut (A2)			
95	E. abut (A2) W. pier (P1) Centre pier (P2)					
70						
77		E. pie	er (P3)			
				_		
Deck Draina				6	6	
Drains Clo	gged (Y/N)	No				
Curbs/Media	n			N	3	(Medium scaling on curbs - worst @ SW.3. 17Feb2009). Snow covered.
	: Standard)					Post 9 at S of S4 has curb spall with post anchor assembly exposed.
	ercent Area)	30				
Bridge Rail				3	3	Welds cracked due to corrosion stress. S1-SP7 missing bottom bolt & top bolt pulled through at splice
	IDGE TUBE)					
Bridge Rail F				3	3	(100% section loss @ S2 SE end post photo. 17Feb2009).
	ST STEEL;PC	OST STEEL)		T	T	Deint fellows in all leastings
	Posts Coating			3	3	Paint failure in all locations.
(Type : PA	INT)			1	1	
Sidewalk				X	Х	
Girder/Beam						
Cover Plate	е			6	6	Approx 25 mm sag in all RB girders. Superficial rust started along coverplates. Superficial rust @ btm flanges.
Flange				6	6	- Supernolal rust & bill hanges.
Web				7	7	_
Stiffeners				X	X	
Splice				X	X	(Crack weld S4G2,4 W. end coverplate N. edge.) - Previous
Weld				4	N	coverplate inspection. Downspouts field welded to btm flanges.
Diaphragms/	Cross Frame			7	7	
Paint Conditi	on			4	4	10% superficial corrosion at flange
(Colour De	scription :)					edges. (Carbo-mastic paint overcoated with bridgecote in July/92.)
(Colour Co						(Carso masile paint evertedated with bridgecote in July/32.)
	equired (Y/N)	Yes				

					Supers	structure					
Bridge Com	ponent			Last		Explanation of Condition					
(Secondary S		<u> </u>									
Bearings				5	5						
Temperatu	re (dea. C)	-4				Exp=A1,2; Fixed=P1,3					
		ED BEARING)								
	e : ROCKER		/			Saaling ruat on racker bearing Langhar halts					
	equate (Y/N)	No				Scaling rust on rocker bearing + anchor bolts.					
Functioning		Yes									
Deck Unders		1.00		6	6	Efflorescence at S4 near A2.					
Stains (Per		1				Zinorososinos di O i nodi 7/2.					
Span Alignm											
Vertical (Y/		No									
Horizontal (No									
	· · ·			4	4	CD corried forward from 21 Dec2010 because on covernlete world					
Superstructi	ure General I	Kating		4	4	GR carried forward from 21Dec2010 based on coverplate weld.					
					Subst	ructure					
Bridge Com	ponent			Last	Now	Explanation of Condition					
Abutments											
(Extended	Backwall Piles	s (Y/N) : N)									
(Extended	Backwall Piles	s Spacing(mm):)								
(Total Number of Caps/Corbels : 1:1) Bearing Seats/Caps/Corbels Detail Ratings						Heavy scaling at both abuts.					
Bearing Seat	s/Caps/Corbe	els Detail Ratin	ngs								
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last	0	0	0	0							
Now	0	0	0		0						
Bearing Seat	s/Caps/Corbe	els		4	4						
(Type : CO	NCRETE)										
(Depth(mm):)										
(Width(mm):)										
Backwalls/Br	eastwalls			4	4	Sev. scaling on E. backwall due to leaky deck jt.					
Greatest H	eight (m)	2.00									
Wingwalls				5	5						
<i>(</i> =											
	er of Bearing I	Piles : 0:0)									
Piles Detail R		4 (0	0 (1)	0.4	٠,						
•	N (count)	1 (count)	2 (count)	3 (cou							
Last	100	0	0		0						
Now	100	0	0		0	-					
Piles				N	N						
Paint/Coating)			X	X						
Abutment Sta	ability			7	7						
Scour/Erosio	n			5	5						
Piers/Bents											
(Type : PIE	· · · · · · · · · · · · · · · · · · ·										
	er of Caps/Co										
Bearing Seat	1	els Detail Ratin	ngs								
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last	0	0	0		2	Severe spalling with exposed rebar at S end P1 & P3.					
Now	0	0	0		2	Spalled area at S end of P2 - photos.					
Bearing Seat	s/Caps/Corbe	els		3	3	·					
(Type : CO	NCRETE)										

					Subst	ructure				
Bridge Com	nonent			Last	Now	Explanation of Condition				
	er of Bearing F	Diloc : 0:0:0	<u> </u>	Lasi	INOW	Explanation of Condition				
Piles Detail F		- 1165 . 0.0.0	')			_				
T lies Detail I	N (count)	1 (count)	2 (count	3 (coi	ınt)	_				
Last	0	0	0	0 (00)	0	_				
Now	0	0	0		0	Estimate 15% of exposed piers delaminated.				
Pier Shaft/Pi				4	4	Med. scaling on pier faces. Approx. 15m2 W face P3 concrete delaminating (photo).				
Greatest H		7.70)	•	1	Approx. 15m2 W face P3 concrete delaminating (photo). SW corner of P1 scaled & delaminated. NE corner has spall. P2 has spall at SW corner.				
Bracing/Stru	ts/Sheathing			Х	X					
Nose Plate				7	7					
Paint/Coating	9			4	4	25% superficial corrosion for nose only - monitor.				
	escription:)					_				
(Colour Co	ode:)									
Pier Stability				7	7					
Scour				N	N	Ice				
Debris (Y/N)		No								
Substructur	e General Ra	ting		3	3					
				5	Structu	re Usage				
					Now	Explanation of Condition				
Channel										
(U/S Direction	on : N)									
(D/S Direction	on : S)				_					
Alignment				8	8					
Bank Stabilit	У			6	6					
	ow Top of Cur	b) 5.0				(Top of water to subdeck 10.0m.) 93/07/14				
Drift (Y/N)		Yes				Drift at P1 & at A1.				
Slope Protec				7	7	Concrete filled sandbags at A2 hslp.				
(Type : NA	TURAL; NAT	URAL)								
Guidebank/S	Spurs			X	X					
Adequacy of	Opening			8	8					
(Fish Compe	ensation Meas	ure 1 : NON	IE)							
	ensation Meas					1				
	neral Rating		,	7	7					

Alberta Transportation

		Maintenance Recommendations	dations					
Inspector Recommendations	Year	Inspector Comments	Department Comments	ıments	Targ	Target Year E	Est. Cost	Cat#
REPAIR/REPLACE BRIDGE RAIL	2013	Replace bridgerail with double layer flexbeam + new bridge post anchorage. Replace SE end post, if not yet done.	75					
GALVANIZE/PAINT BRIDGE RAIL								
RETROFIT BRIDGE RAIL								
SEAL CURBS	2013	Recast exposed bridgepost anchorages, if not yet done.						
PATCH DECK	2013	Deck Underside						
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS								
RESET/ PAINT BEARINGS	2013	Reset P1 roller nest - blast and paint all bearings, if not yet done.						
REPAINT SUPERSTRUCTURE	2013	Repaint truss and apply touchup to RB appr. span girders.						
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP	2013	Restore eroded ditch & add riprap.						
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2013	Replace seals @ pier 1,2,3 & abut 1, (install missing COV PL bolts, if not yet done).						
OTHER ACTION	2013	Repair lower plate welds, if not yet done.						
OTHER ACTION	2013	Patch all piers or recast.						
OTHER ACTION	2013	Remove scale & seal abut elements.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	33.3/33.3	.3 Sufficiency Rating (Last/Now) (%)	29.8/29.8	Est. Repl. Yr	2020 N	Maint. Reqd. (Y/N)		Yes

Alberta Transportation

Special Comments for Next Inspection		Department		
Maintenance Reviewed By		Date	Estimated Total 0	
Proposed Long-Term Strategy	2004.02.03 Consultant assessment, Recommends Bric	dge replacement in 2014 - Ao	Recommends Bridge replacement in 2014 - Agreed. DD to be done with road work due 2007.06.30.	.06.30.
On 3-Year Program (Y/N)				
Proposed Action				
Previous Inspector's Name	Owen Salava	Previous Assistant's Name		
Next Inspection Date	25-Jul-2014	Previous Inspection Date	21-Dec-2010	
Inspection Cycle (Default) (months)	21			
Comment				

		Maintenance Recommend	ations			
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Replace bridgerail with double layer flexbeam + new bridge post anchorage. Replace SE end post, if not yet done.	Region requesting replacement	2014		
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS	2013	Recast exposed bridgepost anchorages, if not yet done.	Region requesting replacement	2014		
PATCH DECK	2013	Deck Underside	Region requesting replacement	2014		
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS	2013	Reset P1 roller nest - blast and paint all bearings, if not yet done.	Region requesting replacement	2014		
REPAINT SUPERSTRUCTURE	2013	Repaint truss and apply touchup to RB appr. span girders.	Region requesting replacement	2014		
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP	2013	Restore eroded ditch & add riprap.	Region requesting replacement	2014		
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Replace seals @ pier 1,2,3 & abut 1, (install missing COV PL bolts, if not yet done).	Region requesting replacement	2014		
OTHER ACTION	2013	Repair lower plate welds, if not yet done.	Region requesting replacement	2014		
OTHER ACTION	2013	Patch all piers or recast.	Region requesting replacement	2014		
OTHER ACTION	2013	Remove scale & seal abut elements.	Region requesting replacement	2014		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

			Maintenance Re	commen	dations					
OTHER ACTION										
Structural Condition Rating (Last/I (%)	Now) 33.3/3		Sufficiency Rating (Last/ (%)	/Now)	29.8/29.8	Est. Repl. Yr	2020	Maint. F	Reqd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments	Replacement prog	ırammed f	or 2017		
Maintenance Reviewed By	Andrew Smik	es			Date	20-Dec-2012		Estimated To	tal 0	
Proposed Long-Term Strategy	onsultant as	ssessment, Recommends	Bridge rep	lacement in 201	14 - Agreed. DD to	be done w	vith road work	due 2007.0	6.30.	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava			Previous	Assistant's Nar	ne				
Next Inspection Date	25-Jul-2014			Previous	vious Inspection Date 21-Dec-2010					
Inspection Cycle (Default) (months)	21									
Comment										