							Bridge	Inspe	ction						
Bridge File Num	ber	7946	64 -1 Bridge									SG			
Year Built/Year 1984/198		<b>v</b>				Lot	No.			2					
Supstr							_ Ins	Inspector Name			Shane Hall				
Bridge or Town Name ST. ALBE		ALBERT	BERT					Inspector Class			BR CLS A				
Located Over 2:34 L1 4		,	4.051;2:34 R1 4.051					Assistant Name							
			4 R1 0.000;3	7:04 L1	0.000			Ass	Assistant Class						
Water Body CI./Year								Ins	Inspection Date			22-Apr-2013			
Navigabil. Cl./Year								Data Entry By			Theresa Lacusta				
Legal Land Location SW SEC		SEC 3 TWP	3 TWP 55 RGE 25 W4M					Data Entry Date			01-May-2013				
Longitude, Latitude -113:38:2		:38:27, 53:42	27, 53:42:58					Reviewer Name			Eric Carcoux				
Road Authority Alberta		rta Transport	ation (/	AIT)			Rev	Review Date			30-Apr-2013				
Contract Main.	Area	CMA	09					Der	ot. Revi	ewer I	Name	Brent Herrick			
Clear Roadway/	Skew	17 / ·	-12 deg. (LH	F)					ot. Revi			01-May-2013			
AADT/Year		5,68	0 / 2012 (A)					· · ·	ow-Up				-		
Road Classification	tion	RAU	-210-110					_		.,					
Detour Length (	<u> </u>	5													
Allowable Load	(t): Sir	ngle	CS1 28		Sem	i C	CS2 49			Train	CS	3 62		> On Criti >Critical N	cal Spans ⁄Iember
Design Loading			MS300											> Primary	Span
							osting		nation						
Required Vert. 0				ng (m) UNDER: 2 L1 5.8m, 2 R1 5											
Posted Vertical	Cleara	nce ()	(/N)	Yes											
Posted: Lane	NB	C	n Bridge (m)	6.0	In Adv	ance	(Y/N)	Yes	Lane	SB	C	n Bridge (m)	5.7	In Advance	e (Y/N) Yes
Remarks															
Required Load I	Posting	) (t)		Single					Semi				Truck	Train	
Posted Loading	(t)			Single					Semi			Truck Train			
Posted:	Lane	E	В	At Junction (Y/N)			No		In Adv	dvance (Y/N)		No	At Bridge (Y/N) No		No
Posted:	Lane	V	/B	At Junction (Y/N)			No		In Adv	ance	(Y/N)	No	At Br	idge (Y/N)	No
Remarks	Not re	equire	d.												
Hazard Marker	At Brid	ge (Y/	N) No	No											
Remarks			Not rec	Not required.											
Other Sign Type	es		Informa	Information, Speed, Direction, Warnin											
						U	tilities	(Loca	ted at)						
Utility Attachme	nts														
Telephone								Ga	5						
Power	On br	idge (	north side).					Mu	nicipal						
Others	<u> </u>		ard on bridge pier.						Problem (Y/N) No						
Remarks	For lig	ghting	. Lighting A/E	3 missiı	ng cap c	on one				on an	other.				
							Appro								
						Last			Explanation of Condition						
Horizontal Align						7	7	Lim	Typical interchange. Limited sight distance due to overpass geometry.						
Vertical Alignment						6	6		Ennied signi distance due to overpass geometry.						
Roadway Width	(m)		17.300					Voi	d unde	NW	corner	of West appr	oach «	lab. Frosion	channel
Approach Bump				17.000			5	bes 300	Void under NW corner of West approach slab. Erosion channel beside NW & NE wingwalls06-Jul-2011 300X150MM pot hole NW abutments with several potholes @ SE photos.						
Guardrail (Y/N)			Yes						Insufficient post spacing @ bridge.						
Guardrail			1.00			4	4			•	•				
Length (m)			99.000	99,000				Bro 1 si	ken BR	to GH SW	< conr photo	nection bolt SN	/vpho	010	
Current Standard (Y/N)				No				2 s	1 split post SWphoto 2 sections damaged W-beam @ NEphoto						
		)		Down											
Termination Type			Turrec	Turned Down											

Alberta Transportation

## Bridge Inspection & Maintenance System (Web 2005)

79464 -1 Bridge

						Approa	ich Road				
					Last	Now	Explanation of Condition				
Drainage					3	3	Both down drain troughs on North side cracked but still fundtional. Gaps along NW approach curb allow deck draingage to run under abutmentphoto				
Approach Road General Rating						6					
						Supers	tructure				
Bridge Comp	ponent				Last		Explanation of Condition				
		ans, Lei	ngths(	m): 38.5-38.5,	A-Ider		ber: A0979-01)				
Special Feat			<u> </u>								
Special Featu						Х	Lighting standard on bridge.				
(Type : )											
Special Feature						Х					
(Type : )											
Wearing Surfa	ace/Deck Top	Detail I	Ratings	5							
	N (%)	1 (%)		2 (%)	3 (%)		_				
Last											
Now											
Wearing Surfa	ace				5	5	Chipseal over high density.				
(Material Ty	/pe : CONVEI	NTIONA		P SEAL COAT	Γ)		_				
(Thickness(	(mm) : )										
Deck Top					N	N	Deck delam (400mmx200mm) in EBL of SP1photo				
Deck Rideabi	lity				5	5					
Deck Joints					3	3	Abutment joint cover plates slapping under traffic, bolts are loose. 1				
Temperatur	e (deg. C)	4	1				sheared cover plate bolt @ EB, and 2 at West abutment - photos.				
(Expansion OR SLIDIN	Type : ARMO G PLATES))	DURED	GLAN	D (WABO UN	DER F	INGER	Could not confirm sheared bolt at East abut.				
(Fixed Type	e:)										
Gap Size (n			Gap L	ocation							
75			West	abutment							
80			East a	butment							
							_				
Deck Drainag					3	3	Deck drains in S1 only. (Bird bath on South curb between 2nd and 10th posts, North curb 4th				
Drains Clog	ged (Y/N)	1	No				and 7th posts. 95/09/18) One retrofit deck drain.				
							Note: Only culd confirm gap at NW corner. Drainage from deck runs under East and West approach in gaps				
							along curbsphotos				
Curbs/Mediar	า				5	5	Transverse cracking in curb every 1m. Typ vertical hairline cracks in				
(Curb Type	: Standard)						curb railing at rail posts. Coating failing along cracked edges. Coating peeling on South fascia, inside face patches protude 50mm.				
Scaling (Pe	rcent Area)	1	1								
Bridge Rail						4	Single bridge tube. Missing one bridgerail splice bolt @ SWphoto				
(Type : GALVANIZED STEEL BRIDGE TUBE)							1 missing bridgerail anchor bolt @ SW cornerphoto				
Bridge Rail P	osts				4 4						
(Type : GAI STEEL)		OST ST	EEL;G	ALVANIZED	POST		7 post A/B nuts with insufficient threads. Loose nuts post 8 on SW-photo.				
Bridge Rail/P	osts Coating				7	7	Dirty.				
(Type : GAI	LVANIZED)						Rail sleeve shor at SW and 2 sections of rail are not connected. photo-06-Jul-2011				
Sidewalk					X	X					

			Supers	tructure						
Bridge Component		Last		Explanation of Condition						
(Primary Span : WG, 2 Spans, Lengths(m): 38.5-38.5, A-Ident Number: A0979-01)										
Girder/Beam										
Cover Plate		X	Х	9 girder / span.						
Flange			8							
Web			8							
Stiffeners		8	8							
Splice		8	8							
Weld		8	8							
Diaphragms/Cross Frame		8	8							
Paint Condition		8 8		Weathering steel. Scaling at end of bottom flanges.						
(Colour Description : )										
(Colour Code : )										
Touchup Required (Y/N)	No									
Bearings		5	5	12 anchor bolts missing nuts.						
Temperature (deg. C)	4			Anchor bolts are bent 30mm out of plumb. Exterior bearing A/B @ S1G1 East abutment is corroding.						
(Expansion Type : REINFORC TEFLON AND STAINLESS ST		RING W	/ITH	Bearings are close to fully expanded at +4 suggesting abutments are						
(Fixed Type : REINFORCED N TEFLON AND STAINLESS ST		WITH		moving or bearings not installed correctly.						
Coating Adequate (Y/N)	Yes									
Functioning (Y/N)	Yes									
Deck Underside		5	4	Small delam in deck U/S in S1 between G1/2photo						
Stains (Percent Area) 5				Hairline white stained transverse cracking at 4.0 m o.c; more on the west half of the bridge. Efflorescense staining reflecting bottom mat rebar pattern.						
Span Alignment Problems										
Vertical (Y/N)	No									
Horizontal (Y/N)	No									
Superstructure General Rating		5	4							
			Subst	ructure						
Bridge Component		Last	Now	Explanation of Condition						
Abutments		1								
Bearing Seats/Caps		7	7							
(Type : CONCRETE)		1								
Backwalls/Breastwalls		7	5							
Wingwalls		5	5	Scaling at SW. Medium horizontal crack at bottom of backwall from end of abut to G3photo						
Piles		N	N							
Paint/Coating			4	Wingwall peeling.						
Abutment Stability			4	Abutments moving, brgs jammed06-Jul-2011						
Scour/Erosion		X	Х							
Piers/Bents										
(Type : PIER-SOLID)				Stained from water from gutters on deck, north end.						
Bearing Seats/Caps		7 7								
(Type : <b>CONCRETE</b> )				Very small chip out of south leg.						
				Few vertical hairline cracks.						

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
(Total Number of Bearing Piles :	0)			
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		Х	Х	
Paint/Coating		5	5	
(Colour Description : )				
(Colour Code : )				
Pier Stability			8	
Scour			Х	
Debris (Y/N)	No			
Substructure General Rating		4	4	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment			8	Curve in both directions.
Traffic Safety Features		7 4		Collision damage NOrth. 1 section of W-beam and 2 posts
Туре	Guardrail			damagedphoto
Slope Protection		4	6	
(Type : CONCRETE; CONCRE	TE)			
Bank Stability			6	
Drainage		7	7	
Grade Separation General Rati	ng	4	4	

Alberta Transportation

			Maintenance Reco	ommend	ations					
Inspector Recommendations	Year	Inspector	Comments		Department C	omments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Tighten lo	ose nuts.							
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL	2013	Replace r loose bolt	nissing AB at SW corner and s, replace missing splice bolt	l tighten						
SEAL CURBS										
PATCH DECK	2013	Repair d	eck delam in EBL.							
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS 2013		Tighten loose cover plate bolts, replace shear bolts.								
RESET/ PAINT BEARINGS	2013	Reset @ nuts.	next major rehab & replace n	nissing						
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION	1									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2013	Seal gaps	along NW approach, curbs.							
OTHER ACTION	2013	Patch po	t holes.							
OTHER ACTION	2013	Replace broken approach rail post and connection bolt to BR at SE. Repair guardra on Hwy 2.								
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 (%)	/) 50.0/44.	.4	Sufficiency Rating (Last/No (%)	ow) 4	7.0/46.2	Est. Repl. Yr	2044	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Total	0	

Alberta Transportation	Bridge Inspection & Maintenance System (Web	2005) 7946	79464 -1 Bridge			
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Kris Bosters	Previous Assistant's Name				
Next Inspection Date	22-Jan-2015	Previous Inspection Date	06-Jul-2011			
Inspection Cycle (Default) (months)	21					
Comment						