Bridge Inspection														
Bridge File Number	763	78 -1 Bridge						Form Type		SG				
Year Built/Year		1971/1971						Lot No.		4				
Supstr								Inspector Name		Shane Hall				
Bridge or Town Name		ENTRANCE					Ins	Inspector Class		BR CLS A				
Located Over	CNF	CNR					As	Assistant Name						
Located On	40:3	0 C1 3.435						sistant Cl	lass					
Water Body Cl./Year								Inspection Date		17-Oct-2012				
Navigabil. Cl./Year					-			Data Entry By		Theresa Lacusta				
Legal Land Location	NW	SEC 6 TWP	51 RGE	25 W5N	5M			Data Entry Date			26-Nov-2012			
Longitude, Latitude	-117	':40:38, 53:22	2:40					Reviewer Name		Eric Carcoux				
Road Authority	Albe	erta Transpor	tation (Al	T)				view Date	e		19-Nov-2012)		
Contract Main. Area	CMA	\13					De	pt. Revie	wer N	lame	Brent Herrick			
Clear Roadway/Skew	/ 11 /	-56 deg. (LH	F)					pt. Revie			21-Dec-2012			
AADT/Year	2,04	0 / 2011 (A)						llow-Up E			21 200 2012	-		
Road Classification	RAL	J-209-110							-,					
Detour Length (km)	420													
Allowable Load (t): S	ingle	CS1 60		Semi		S2 76		-	Train		3 92		> On Critical Spans	
D : 1 !:		GIRDER			GI	RDER				GIF	RDER		>Critical N	
Design Loading:		HS20				-1:		(!					> Primary	Span
Paguired Vert Clears	nnoo D	ooting (m)			PO	osting	mor	mation						
Required Vert. Clears														
Posted: Lane NB				In Adva		/\//NI\	No	Long	SB		n Dridge (m)		In Advance	(V/NI)
		On Bridge (m)	In Adva	ince	(1 / IN)	No	Lane	SD	U	n Bridge (m)		In Advance	e (1/IN)
	require	eu.	Oire sele					Comi			Two old Train			
Required Load Postin	ig (t)		Single					Semi		Truck Train				
Posted Loading (t)		.n	Single	0.11				Semi			Truck Train			
Posted: Lane		NB		ction (Y/				In Advance (Y/N)		No	At Bridge (Y/N) At Bridge (Y/N)		No	
Posted: Lane		SB	At Junc	ction (Y/	/N)	No		In Advance (Y/N)		No	At Br	idge (Y/N)	No	
	require													
Hazard Marker At Brid	dge (Y	/N) Yes												
Remarks														
Other Sign Types		Inform	ation, Slip	ppery R				4. 1. ()						
Littlita Attackers at a					Ut	ilities	LOC	ated at)						
Utility Attachments	. ,													
•	t r/w.						Gas							
Power								Municipal N						
	commu	ın. along trac	ks under	neath s	th structure			Problem (Y/N) No						
Remarks						Люми		2 a a d						
				ı	Last	Now	Approach Road Now Explanation of Condition							
Horizontal Alignment				L	<u>-αδι</u> 7	7		Intersection to entrance 60m south.						
Vertical Alignment					7	6	1	ade rises			o oom ooun.			
Roadway Width (m)		8.700			-	0								
Approach Bump		0.700			7	7								
Guardrail (Y/N)		Yes				,	Inc	ufficient	nosts	No h	locking on no	sts of	f bridge typic	cal all corners.
Guardrail (17/N) Tes				4	5	⊟ S∨	V - 42 M İ	ength	; NE,I	NW & SE - 99	m.	. Jinago, typit	, ai aii 00111013.	
Length (m) 45.200				,		No	t thrie be	am tra	ansitic	on.				
Current Standard (Y/N) No														
Termination Type Turned Down														
Drainage		Turriet	, DOVVII		4	5								
							\perp							
Approach Road Ger	neral R	Rating			7	6								

						Supers	tructure
Bridge Comp	onent					Now	Explanation of Condition
(Primary Spa	n : RB, 3 Spar	ns, Lenç	gths(n	n): 21.3-27.4	-21.3, A	-Ident	Number: A0650-01)
Special Feat	ures						
Special Featu	ıre					X	
(Type:)							
Special Featu	Special Feature				Х		
(Type:)							
	ace/Deck Top	Detail R	atinas	.			
3	N (%)	1 (%)	J.	2 (%)	3 (%)		
Last	90	0		0	- (11)	0	
Now						-	
Wearing Surf	ace				5	5	Chip sealed over FRC. 5% peeled, mostly along c/l.
	/pe : CONCRE	ETE - CO	ONVE	NTIONAL CH			one source state the same posted, mostly disting on
(Thickness)	(mm) : 50)						
Deck Top	<u>, , , , , , , , , , , , , , , , , , , </u>				N	N	Visible along shoulders onlyMay 23, 2009
Deck Rideabi	ility				7	7	
Deck Joints					3	4	3 holes corroded through SE joint curb cover plate.
Temperatur		3					
	Type : FINGE						
	e : GLAND (W				X, ETC))	_
Gap Size (r	nm)			ocation			
30				ut. (A1)			_
74			N. Abı	ut. (A2)			
							_
Deck Drainag	je				4	6	Bridge is on a good grade to the North. No deck drains.
Drains Clog	ged (Y/N)	N	0				No deck drains
Curbs/Mediar	n				6	6	Light scaling.
(Curb Type	: Standard)						
Scaling (Pe	rcent Area)	5					
Bridge Rail					4	7	Insufficient thread length at post bases, both sides. Approx 5% of
	LVANIZED ST	EEL BR	RIDGE	TUBE)			bolts.
Bridge Rail P					4	4	60% paint peeling off galvanized. Galvanizing in good condition.
	LVANIZED PC	OST STE	EEL;G	ALVANIZED	POST		Rating based on condition of galv.
Bridge Rail/P	osts Coating				5	6	
(Type : PAI							1
Sidewalk	,				X	Х	
Girder/Beam							
Cover Plate					7	7	
Flange					7	7	Stiffeners over bearings.
Web					7	7	-
							-
Stiffeners					7	7	-
Splice					7	7	-
Weld					7	7	
Diaphragms/0	Cross Frame				5	5	One diaphragm bent over RR tracks. 125mm sideways, 10mm up - still functional.

Superstructure								
Bridge Component		Last		Explanation of Condition				
(Primary Span : RB, 3 Spans, Le	engths(m): 21.3-27.4-2	21.3, A		•				
Paint Condition		6	6					
(Colour Description : GREEN)		'						
(Colour Code : 503-113)								
Touchup Required (Y/N)	No							
Bearings			4	8 anchor boltsbroken @ N. Abut.(A2). Remaining ABs @ A2 are				
Temperature (deg. C)	3			distorted due to bridge skew & steep grade. Grout pads				
(Expansion Type : REINFORCI TEFLON AND STAINLESS ST	ED NEOPRENE BEAF	RING W	/ITH	cracked/delam. Missing AB nut @ P1G1 bearing. Bearing pad appears distorted due to corrosion buildup on stainless steel plate at A1photo				
(Fixed Type : REINFORCED P.	AD BEARING)			All bearing pads at A2 distorted due to corrosion and bridge rotation.				
Coating Adequate (Y/N)	No							
Functioning (Y/N)	Yes							
Deck Underside		4	5	Transverse cracking with staining at Sp. 2. Also stained by train				
Stains (Percent Area)	5			exhaust.				
Span Alignment Problems								
Vertical (Y/N)	No			Steep grade has everything pushed North, est 15mm. Skew				
Horizontal (Y/N)	Yes			pressures pushing abutments west approx 10mm.				
Superstructure General Rating		4	4					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments								
Bearing Seats/Caps		6	5	Narrow to medium vertical cracks under bearins locations at A1 &				
(Type : CONCRETE)				A2.				
Backwalls/Breastwalls		5	5					
Wingwalls		6	6					
Piles		N	N					
Paint/Coating		5	5					
Abutment Stability		7	7					
Scour/Erosion		7	7					
Piers/Bents								
(Type : PIER-COLUMN)				Delam & cracking @ ends of pier 2, close to bearing locations.				
Bearing Seats/Caps		5	4	Scaling @ top of P2 East side.				
(Type : CONCRETE)								
(Total Number of Bearing Piles :	4:4)			Minor scaling at pier 1, pile 4.				
Pier Shaft/Piles		6	5					
Bracing/Struts/Sheathing		Х	Х					
Nose Plate		Х	Х					
Paint/Coating			5	Minor peeling in isolated areas.				
(Colour Description :)								
(Colour Code :)				Grey.				
Pier Stability	,							
Scour		7	7					
Debris (Y/N)	No		-					

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Substructure General Rating		5	4						
		<u>s</u>	tructu	re Usage					
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment		Х	X	CNR mainline double track.					
Traffic Safety Features		Х	Х						
Type	None								
Slope Protection		5	4	Metal binwall South side only. Corrosion @ center bay with					
(Type: NATURAL; NATURAL)			numerous perforations. 75mm horizontal displacement @ top of bin due to buckled stringers.					
Bank Stability		5	5						
Drainage		7	7						
Grade Separation General Rati	ng	5	4						

76378 -1 Bridge

		Maintenance Recommend	ations			
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Install 4 sleeve bolts(carried over from AT audit inspection).				
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK	2013	Repair/patch spalled along u/s @ NE corner @ underside of North joint.(carried over from AT audit inspection)				
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS	2013	Repair/reweld broken & cracked fingers in finger plate assembly @ A1.(carried over from AT audit inspection.)				
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS	2013	Annually deck, gutters and flush vlean backwall trough drains.(carried over from AT audit inspection)				
REPAIR ABUTMENT SCOUR/EROSION		,				
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Seal all abutment/pier caps.				
OTHER ACTION	2013	Patch delam/potholes in South abutment paving lip.(carried over from AT audit inspection)				
OTHER ACTION	2013	Replace 1 split TT post on SE approach rail(carried over from AT audit inspection)				
OTHER ACTION	2013	Consider repair/reweld stainless plates along bottom flange @ 3 brg. locations on A1.(carried over from AT audit inspection)				
OTHER ACTION	2013	Replace 6 broken AB's @ AZ.(carried over from AT audit inspection)				
OTHER ACTION	2013	Repair damaged retrofit plastic backwall trough drain @ A1.(carried over from AT audit inspection)				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						1

		Maintenance Recomm	endations					
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	ow) 50.0/44.4	Sufficiency Rating (Last/Now) (%)	62.6/58.9	Est. Repl. Yr	2030	Maint. Requ	. (Y/N)	Yes
Special Monitor bearings. Comments for Next Inspection	rosion.		Department Comments					
Maintenance Reviewed By			Date		E	stimated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Wayne Cappellani	Previo	ous Assistant's Name	Brent Herrick				
Next Inspection Date	17-Jul-2014	Previo	ous Inspection Date	02-Oct-2012				
Inspection Cycle (Default) (months)	21							
Comment								