						В	ridge lı	nspe	ction							
Bridge File Numb	per 7	77088 -1 Bridge									PSR					
Year Built/Year		1978/1978						Lot	Lot No.		1					
Supstr								Inspector Name		Garry Roberts						
Bridge or Town N			EL						Inspector Class		BR CLS A					
Located Over		CPR							Assistant Name							
Located On		3:02 C1	7.395					Ass	sistant C	lass						
Water Body CI./Y								Ins	pection	Date		28-Nov-2011				
Navigabil. Cl./Ye	ar							· · · ·	a Entry			Alyssa Boyn	ton			
Legal Land Loca	tion S	SE SEC	10 TWP	8 RGE 5	W5M	М			a Entry	-		04-Jan-2012				
_ongitude, Latitu	de -	114:35:5	53, 49:37	:58					Reviewer Name Tom Carey							
Road Authority	4	Alberta T	ransporta	ation (Al	Г)			Rev	view Da	te		07-Dec-2011				
Contract Main. A	rea (CMA26									lame	Tim Davies				
Clear Roadway/S	Skew 1	3.7 / 58	deg. (R⊦	IF)				<u> </u>	ot. Revie			10-Jan-2012				
AADT/Year	6	6,470 / 2	010 (A)					<u> </u>	low-Up		.0	10 0411 2012				
Road Classificati	on F	RAU-213	3-120						ow op	Uy						
Detour Length (k	:m) 3	3														
Allowable Load (†	t): Sing	le CS1	28		Semi	CS	62 49			Train	CS	3 62		> On Cri	ical Spa	ins
														>Critical		
Design Loading:		HS2	5			De	sting l		notion					> Primar	y Span	
Required Vert. C	learanc	o Postin	ng (m)			Po	isting li	morr	nation							
Posted Vertical C			<u>g (iii)</u>	No												
	NB		ridge (m)		n Adva	nco (′ ∨/NI)	No	Lane	CD	0	n Bridge (m)		In Advand		No
		EQUIRE	• • •		II Auva		1/1N)	NU	Lane	00		n bhuge (m)		III Auvant		
			.0	Single					Semi				Truck	Troin		
Required Load P		()		Single										_		
Posted Loading (Single				Semi In Advance (Y/N)				Truck Train At Bridge (Y/N)				
	Lane	EB		At Junc			No					No			No	
	Lane	WB		At Junc	tion (Y/	'N)	No		In Adva	ance (Y/N)	No	At Bri	dge (Y/N)	No	
	Not req															
Hazard Marker A	t Bridge	}(Y/N)	No	t												
Remarks			Not req	uirea												
Other Sign Type:	S					1 14:			(ad a()							
Jtility Attachmen	to					Uti	ilities (l	_oca	ted at)							
								Car								
· · · · · · · · · · · · · · · · · · ·	Under	muge w	est span.					Gas Municipal								
Power	Tolorr			00						(NI)						
		•	er west sp nder N cu					PI0	blem (Y	/IN)	No					
		ptics @ I		IJ												
							Approa	ch R	load							
					L	Last	Now	Explanation of Condition								
Horizontal Alignn						6	6	Curves to east. Bridge on crest curve.								
Vertical Alignment				5	5	BLIC	uge on o	rest C	urve.							
Roadway Width (m) 13.700																
Approach Bump				5	5											
Guardrail (Y/N) Yes						Mis	sing 1 t	ransitio	on bol	t at NE and 4	splice	bolts.				
Guardrail				4	4	Not	thriebe	am								
Length (m) 65.000			65.000													
Length (m)	Current Standard (Y/N) No															
*	ard (Y/N							1								
		/	TURNE	D DOW	N											
Current Standa		,	TURNE	D DOWI	N	4	4	Dra	ins und	er slop	e pro	tection @ SE	-no tro	ough @ SE	and NV	V wing

Superstructure									
Bridge Com	oonent				Last		Explanation of Condition		
(Primary Spa	(Primary Span : LF, 3 Spans, Lengths(m): 21.3-27.4-24.4, A-Ident Number:)								
Special Feat	ures								
Special Featu	ure				7				
(Type : EX	LATER POS	ST TENS)							
Special Featu	ure					Х			
(Type :)									
Wearing Surf	ace/Deck Top	Detail Ra	atings	;					
	N (%)	1 (%)		2 (%)	3 (%)				
Last	0	0		0		0			
Now	0.0	0.0		0.0	0).0	-		
Wearing Surf	ace				5	4	Thin chipseal coat on driving lanes.		
		ETE - CO	NVE	NTIONAL CH	IP SEA	L	Chip seal wearing off - 30%. Key cracks are mostly sealed.		
(Thickness	(mm) : 50)								
Lateral Conn (Y/N)	ection Probler	n Ye	s						
Deck Top					N	7			
Deck Rideab	ility				6	6			
Deck Joints					3	3	10 finger welds broken @ E abut & 6 @ W abut jnt. Active leakage seen		
Temperatu	• • •	3					 Plumbing design allows drainage on 		
(Expansion	Type : FING	ER PLATI	ES)				abut & corrodes brg pins & mas plates Backwall trough full of silt @ east abut.		
(Fixed Type	e : WATER S	TOP)							
Gap Size (mm) Gap Location							_		
95 West Abut.							_		
100		E	ast A	Abut.			_		
10		E	. Pie	r			_		
10		V	V. Pie	er			_		
							-		
Deck Drainag					3	3	At deck ends. Bridge on grade. troughs @ backwalls silted		
Drains Clog		Ye	S						
Curbs/Media					5	5	Flexual cracks every 1 m. Cracks at exterior at abuts.		
	: Standard;N						Minor spalls & exposed water stop @ SW joints		
Scaling (Pe	ercent Area)	2				_	Spall at NE exterior.		
Bridge Rail					7	7	12 post A/B nuts not fully engaged.		
(Type : STE	EL BRIDGE	TUBE)							
Bridge Rail P	osts				4	4	Minor rust on rails.		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)									
Bridge Rail/Posts Coating					4	4			
(Type :)									
Sidewalk					X	Х			
Girder Detail			、 、	0 (0.1				
					3 (cou		-		
Last	0	0		0		0	-		
Now	0	0		0		0			

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : LF, 3 Spans, Lengths(m): 21.3-27.4-24.4, A-Ident Number:)								
Girders		5	4	Stirrup exposed at SW corner of				
Cracking (Y/N)	racking (Y/N) Yes			exterior girder 30 mm diameter chip. Typical chamfer cracks.				
Spalling (Percent Area)	0			All crks are narrow				
(Number Of Girders : 27)				Girder 4 @ west span narrow long cracks @ bottom Sp.1 G9 has vertical crack over P.1. Some corrosion @ girder 2 @ center span				
Diaphragms/Cross Frame		6	6	Efflorescence at southwest.				
Bearings		3	3	Some of the east anchor bolts are bent inwards.				
Temperature (deg. C)	3			PINS RUSTING DUE TO JOINT LEAKAGE & masonary plates - worst @ E abut				
(Expansion Type : REINFORC TEFLON AND STAINLESS ST	ED NEOPRENE BEAR 'EEL)	RING W	/ITH	Sp.3-G7 has neoprene pad slid back only bearing 135mm &				
(Fixed Type : REINFORCED N TEFLON AND STAINLESS ST	EOPRENE BEARING	WITH		overhanging 145mm				
Coating Adequate (Y/N)	No							
Functioning (Y/N)	Yes							
Deck Underside		6	5	Staining between girders - 50% at ctr span. No active leakage seen				
Stains (Percent Area)	5							
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Rating		3	3					
6	1		Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments		-						
Bearing Seats/Caps		6	4	Spall cracks at both abuts.				
(Type : CONCRETE) Backwalls/Breastwalls		<u> </u>	<u> </u>					
Backwalls/Breastwalls		6	6					
Wingwalls		6	6					
Piles		N	N	Buried.				
Paint/Coating		3	3	Heaving scaling from joint leakage- worst at A2.				
Abutment Stability		7	7					
Scour/Erosion		Х	Х					
Piers/Bents								
(Type : PIER-COLUMN)								
Bearing Seats/Caps		5	6					
(Type : CONCRETE)								
(Total Number of Bearing Piles :	5:5)							
Pier Shaft/Piles		7	7					
Bracing/Struts/Sheathing		Х	X					
Nose Plate		Х	X					
Paint/Coating		4	4	Peeling at 5%-@ cap ends.				
(Colour Description :)				Allowing corrosion. Corrosion stains @ both pier caps				
				Staining on cap between girders and on ends. Also from leaking water stop				
(Colour Code :)								

			Subst	ructure			
Bridge Component		Last	Now	Explanation of Condition			
Scour		X	X				
Debris (Y/N)	No						
Substructure General Rating			4				
		5	Structu	re Usage			
		Last	Now	Explanation of Condition			
Grade Separation							
Road Alignment		X	X	Railroad.			
Traffic Safety Features		Х	Х				
Туре							
Slope Protection		4	4	West abutment protection settled 60mm.			
(Type : CONCRETE; CONCRETE)				East abut protection ave 120 mm and buckling #5 and 6 row from bottom - 25 mm. Settled around most pier piles.			
Bank Stability			6				
Drainage			4	Abut drainage is undermining slope protection.			
Grade Separation General Rating			4				

Alberta Transportation

		Maintenance Recommen	dations					
Inspector Recommendations	Year	Inspector Comments	Department Cor	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Install 1 transition bolt at NE and 4 splice bolts	5.					
GALVANIZE/PAINT BRIDGE RAIL								
SEAL CURBS								
PATCH DECK								
SEAL DECK								
OVERLAY DECK	2012	Reinstall chip coat.						
REPAIR/REPLACE DECK JOINTS	2012	weld @ E&W abut jt- install new waterproof joints. Repair paving lip spalls approx 1m2.						
RESET/ PAINT BEARINGS	2012	Reset @ 3rd girder @ east Abut						
WASHING	2012	backwall troughs						
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSIO	N							
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2012	Fill voids at pier piles slope protection settlement						
OTHER ACTION	2012	Wash patch and seal abut & Pier Caps						
OTHER ACTION								
OTHER ACTION	2012	Consider all new back wall plumbing and new deck joints.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Nov (%)	w) 44.4/38	8.9 Sufficiency Rating (Last/Now) (%)	48.0/45.8	Est. Repl. Yr	2025	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		E	Estimated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Garry Roberts	Previous	Assistant's Name					

Alberta Transportation	Bridge Inspection & Maintenance System (Web 2	2005) 770	088 -1 Bridge
Next Inspection Date	28-Aug-2013	Previous Inspection Date	17-May-2010
Inspection Cycle (Default) (months)	21		
Comment			