						=	Bridge li	nspe	ction							
Bridge File Numb	er <sup> </sup>	75760 N-				Form Type			PSR							
Year Built/Year		1967/196	<b>v</b>				Lot No.			2						
Supstr								Inspector Name			Shane Hall					
Bridge or Town N	e or Town Name BREMNER							· · · ·	· · · · · · · · · · · · · · · · · · ·			BR CLS A				
Located Over									Assistant Name							
Located On	21:28 R1 13.700								Assistant Class							
Water Body CI./Y	Water Body CI./Year											04-Jan-2013	;			
Navigabil. Cl./Year									•			Theresa Lacusta				
Legal Land Locat	ion	NW SEC	7 TWP 5	53 RGE 2					Data Entry Date			16-Jan-2013				
Longitude, Latitud	le ·	-113:14:4	6, 53:34	•11								Eric Carcoux	(			
Road Authority		Alberta T	ransporta	ation (AIT	Г)				Review Date			10-Jan-2013				
Contract Main. Ar	ea	CMA09									Vame	Brent Herricl				
Clear Roadway/S	kew	14.2 / 2 d	eg. (RHF	-)				<u> </u>	ot. Revi			22-Jan-2013				
AADT/Year		10,770 / 2	2011 (A)					<u> </u>	low-Up			0411 2010				
Road Classification	on 🛛	RAD-412	.4-120						5 Op							
Detour Length (kr	n)	1														
Allowable Load (t)	): Sing	gle CS1			Semi		S2 50			Train		3 62		> On Crit	ical Spa	ns
Decise Law "		GIRI				G	RDER				GIF	RDER		>Critical		
Design Loading:		HS2	0			_ <b>D</b> -	otional	- form						> Primary	/ Span	
Poquired Vert O	0010-0	Do Doctin	a (m)		1614		osting li									
Required Vert. Cl Posted Vertical C			y (iii)	UNDER	IO L'I	10.31	11, 10 R	10.3	111							
			;		n Anlun		()())				0				Vaa	
Posted:         Lane         EB         On Bridge (m)         In Advance (Y/N)         Lane         WB         On Bridge (m)         5.3         In Advance (Y/N)         Yes												res				
Remarks EB clearance posted on Southbound s									Comi				Truck Train			
					Single				Semi						_	
Posted Loading (t)				Single					Semi			(0.0)		Truck Train		
	ane	NB		At Junction (Y/N)			No		In Advance (Y					At Bridge (Y/N) No		
	_ane	SB	At Junction (Y/N)			No	In Advance			(Y/N) No At B			idge (Y/N)	No		
	Not rec															
Hazard Marker At	Bridg	e (Y/N)	Yes													
Remarks			Installe	d on inter	locking	g bar	riers.									
Other Sign Types						1 14	:::::::::::::::::::::::::::::::::::::::		(a.d. a.f.)							
Litility Attachmont		DWER UT				Ut	ilities (l	_oca	ted at)							
Utility Attachment				-	LINE			Gas North about 100 m.								
	Street	South, int	erchang	J 1/ ₩.				Municipal								
		under bri	dae						•	em (Y/N) No						
Remarks	Ignts		uye.							/11)	UNU					
							Approa	ch_B	oad							
					1	Last	Now		Explanation of Condition							
Horizontal Alignm	ent					7	7		Merge lanes on/off ramps. Typical grade separation.							
Vertical Alignment						7	7									
Roadway Width (	m)		14.300													
Approach Bump						4	6									
Guardrail (Y/N)			Yes						ncrete ii ow cove		king b	arriers currer	ntly in:	stalled.		
Guardrail						7	N									
Length (m) 42.000								-								
Current Standa	rd (Y/N	1)	Yes					-								
Termination Typ	be		Turned	Down				<u> </u>								
Drainage							N	Water ponding @ NE corner of deck-28mx1.5m9photo) Water ponding @ SE corner-photo-23-Sep-2010								

Alberta Transportation

## Bridge Inspection & Maintenance System (Web 2005)

75760 N-1 Bridge

					<i>F</i>		ch Road						
					Last	Now	Explanation of Condition						
Approach Ro	oad General F	Rating	l		4	7							
						Supers	tructure						
Bridge Comp	ponent				Last	Now	Explanation of Condition						
(Primary Spa	n : FC, 3 Spar	ns, Le	ngths(m	n): 29-16.2-29	, A-Ide	nt Num	ber: )						
Special Features													
Special Featu	ure				7	7	Delams along steel plate surfaces has resulted in spalling.						
(Type : <b>EX</b> 1	LATER POS	TTEN	NS)										
Hinge					4	4							
(Hinge Type :	: CONC)												
Wearing Surfa	ace/Deck Top	Detail	Ratings	5									
	N (%)	1 (%)	)	2 (%)	3 (%)		2m width for full length of bridge is concrete to grade otherwise is						
Last							chipseal.						
Now													
Wearing Surf	ace				5	5	Approx 2% of chipseal failed.						
(Material Ty COAT)	ype : CONCRE	ETE - (	CONVE	NTIONAL CHI	P SEA	L	Cracking between girders in East lane of Span 1 and 2. thickness 20						
(Thickness)	(mm) : <b>50</b> )												
Lateral Conne (Y/N)	ection Problem	ו	Yes										
Deck Top					N	N							
Deck Rideabi	ility				6	6							
Deck Joints						4	(Observed leaking @ 2 piers & North abutment. 03/Nov/2005) No						
Temperature (deg. C) 2							leaks evident at this time. P2 & P1 all CP bolts missing.shearedphoto						
	Type : <b>ARMO</b> <b>G PLATES)</b> )	URED	GLAN	D (WABO UN	DER FI	NGER	Cover plates at P1 & P2 appear temporary.						
(Fixed Type SLIDING P	e : ARMOURE LATES))	D GL/	AND (W	ABO UNDER	FINGE	R OR	Gaps at piers not measurable due to different plate widthsphoto Joint replacement at abutment in progressphoto						
Gap Size (r	nm)		Gap L	ocation									
84			S. abu	ıt									
105			S. pier	r									
92			N. pie	r									
78			N. abu	ut									
Deck Drainag	je				4	N	Ponding along East curb-photo23-Sep-2010						
Drains Clog	gged (Y/N)		Yes				Leakage with stains at S3 between G7-G823-Sep-2010 Snow/ice covered.						
Curbs/Mediar					7	N	New exterior curbs.						
(Curb Type	: Standard)						Snow covered.						
Scaling (Pe	ercent Area)		0										
Bridge Rail					8	N	Insufficient thread on 2 bolts @ 2 posts in West railphoto23-Sep-						
(Type : GA	LVANIZED ST	EEL I	BRIDGE	TUBE)	1		2010						
Bridge Rail P	osts				4	N	Snow covered.						
(Type : GA STEEL)	LVANIZED PC	DST S	TEEL;G	ALVANIZED	POST								
Bridge Rail/P	osts Coating				8	N							
(Type : GA	LVANIZED)												
Sidewalk						X							

				Supers	tructure					
Bridge Component			Last	Now	Explanation of Condition					
(Primary Span : FC, 3 Spar	ns, Lengths(I	n): 29-16.2-29								
Girder Detail Ratings										
N (count) 1 (count) 2 (count)				unt)						
Last										
Now										
Girders			4	4	Span 1 girders appear to have approx. 50mm of Neg. camber					
Cracking (Y/N)	Yes		· · · ·		possibly due to snow loads.					
Spalling (Percent Area)	1				- Hinged connections have delams along steel plates. No structural cracks.					
(Number Of Girders : <b>15</b> )					<ul> <li>H.L.D outside leg S1G15 &amp; S1G1-photo N end of S2G1 spalled d to low cover with rebar exposedphoto</li> <li>S end of S2G1 has wide vertical crack with 200mm long delamphoto</li> <li>S2G15 has delams.spalls at both ends with rust stainingphoto</li> <li>Approx 15% of girders have cracks in leg extending from shoe plates.</li> <li>(Active leakage between G7-G8 on S305-Dec-2008)</li> <li>15/Span.</li> <li>Most girders have typical FC cracks.</li> <li>South end of S1G2 has exposed rebar due to low coverphoto</li> </ul>					
					Delamination in W leg of S1G1 at South end above bearingphoto					
					continued below					
Diaphragms/Cross Frame			5	5	Wide crack 500mm long @ underside of E leg at N end if S1G15 photo Diagonal sheer cracks at N end of S3G1 & S3G15-photo Wide long crack in bottom leg of S3G2photo Several delaminated bottoms with stains.					
Bearings			5	5						
Temperature (deg. C)	2		0	U						
(Expansion Type : REINF TEFLON AND STAINLES (Fixed Type : REINFORC Coating Adequate (Y/N)	SS STEEL) ED PAD BE/ Yes				-					
Functioning (Y/N)	Yes			1						
Deck Underside			5	5	Old stains @ weep holes.					
Stains (Percent Area)	2									
Span Alignment Problems	5									
Vertical (Y/N)	No									
Horizontal (Y/N)	No									
Superstructure General R	ating		4	4						
					ructure					
Bridge Component			Last	Now	Explanation of Condition					
Abutments										
Bearing Seats/Caps			4	6	-					
(Type : CONCRETE)				1						
Backwalls/Breastwalls			7	7						
Wingwalls			4	6						
Piles			N	N						
Paint/Coating			7	7						
Abutment Stability			7	7						
Scour/Erosion			7	7						

Alberta Transportation

Substructure											
Bridge Component		Last	Now	Explanation of Condition							
Piers/Bents											
(Type : <b>PIER-COLUMN</b> )											
Bearing Seats/Caps		6	6	8 columns, possibly 2 piles per column.							
(Type : CONCRETE)				Pigmented sealer.							
(Total Number of Bearing Piles :	0:0)										
Pier Shaft/Piles		6	6								
Bracing/Struts/Sheathing		X	Х								
Nose Plate		X	Х								
Paint/Coating		7	7								
(Colour Description : )											
(Colour Code : )											
Pier Stability		7	7								
Scour		X	Х								
Debris (Y/N)	No										
Substructure General Rating		4	6								
			Structu	re Usage							
		Last		Explanation of Condition							
Grade Separation		Luot	non								
Road Alignment		8	8								
Traffic Safety Features		6	6								
Туре	Guardrail/Lighting										
Slope Protection		8	8								
(Type : CONCRETE; CONCR	ETE)										
Bank Stability		8	8								
Drainage		8	8								
Grade Separation General Rat	ing	8	6								

					Main	tenance Reco	ommend	ations						
Inspector Recommendations			'ear	Inspector	r Comments			Department Cor	nment	ts	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL														
GALVANIZE/PAINT BRIDGE RAIL														
SEAL CURBS														
PATCH DECK														
SEAL DECK														
OVERLAY DECK														
REPAIR/REPLACE DECK JOINTS			013	Repair lo	ose plates & mi	ssing bolts.								
RESET/ PAINT BEARINGS														
WASHING			2015 Clean dirt and cons. debris off of shoulders o bridge.											
SHOTCRETE RE	PAIRS													
REPAIR ABUTME	NT SCOUR/EROSI	NC												
PLACE ADDITION	NAL RIP RAP													
REMOVE DRIFT ACCUMULATION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/Now) (%)			44.4/55.6 Sufficiency Rating (Last/Nov (%)				<b>w)</b> 4	45.4/54.2 Est. Repl. Yr		2024	Maint. Red	ąd. (Y/N)	Yes	
Special Comments for Next Inspection	Special Rehabiltration underway, re-inspect once repairs completed.							Department Comments						
Maintenance Rev	iewed By						Date			E	Estimated Total	0		
Proposed Long-T	erm Strategy													
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name Shane			nane Hall P				Previous Assistant's Name							
								nspection Date		23-Sep-2010				
Inspection Cycle		21												
Comment														