				В	ridge I	nspe	ection							
Bridge File Number 75340 N-1 Bridge					Ĭ	Form Type			PSR					
ear Built/Year 1962/1962						Lot No.			2					
Supstr						Inspector Name			Jason Saly					
Bridge or Town Name LACON						Inspector Class			BR CLS A					
	12:10 L1 0.000;12:10 R1 0.000					Ass	Assistant Name							
	17.464					Assistant Class								
Water Body Cl./Year						Inspection Date			20-Mar-2013					
Navigabil. Cl./Year							Data Entry By			Marcia Chavez				
	C 23 TWP		27 W4	IM_		Data Entry Date			01-Apr-2013					
						Re	Reviewer Name			John O'Brien				
·	oad Authority Alberta Transportation (AIT)					Review Date				26-Mar-2013				
Contract Main. Area CMA19					Dept. Reviewer Name				Chris Black					
	1 deg. (RH					Dept. Review Date			09-Apr-2013					
	/ 2011 (A)			Follow-Up By										
	2.4-130													
Detour Length (km) 1			1											
Allowable Load (t): Single CS	1 45 RDER		Semi		S2 53 RDER		Train			S3 66 IRDER		> On Critical Spans>Critical Member		
Design Loading: HS				0,	SIRDER G				011	(DLIX		> Primary		
Teading.	20			Po	sting I	nfor	mation					> 1 minary	Оран	
Required Vert. Clearance Post	na (m)	UNDER	R: 12 L1											
Posted Vertical Clearance (Y/N		Yes			,									
	ridge (m)		n Adva	ince ((Y/N)	Yes	Lane	WB	0	n Bridge (m)	5.5	In Advance	(Y/N)	Yes
Remarks	ge (<u>)</u>				(. , ,			1		<u></u>	0.0		(. , ,	
Required Load Posting (t) Single							Semi				Truck Train			
Posted Loading (t)		Single				Semi			Truck Train					
Posted: Lane EB		At Junc	tion (Y/	Y/N) No		In Advance (Y/N)		No	At Bridge (Y/N) No		No			
Posted: Lane WB		At Junction (In Advance (Y/N)		No	At Bridge (Y/N) No				
Remarks Not required.	,						1117101	unoo ,	(1714)	110	,	1490 (1711)	1110	
Hazard Marker At Bridge (Y/N)	No													
Remarks Not required.														
Other Sign Types Route														
· · · · · · · · · · · · · · · · · · ·	7100110			Ut	ilities (Loca	ited at)							
Utility Attachments														
Telephone Yes - no mark	er.					Ga	s							
Power							Municipal							
Others Street lighting	along Hwy	y 12.					Problem (Y/N) No							
Remarks Power for light	ts on piers						,							
					Approa	ich F	Road							
			L	Last	Now	Explanation of Condition								
Horizontal Alignment				8	8		On/off ramps removed; no longer clover leaf shape, now dia					w diam	ond	
Vertical Alignment				7	7	sna	ape.							
Roadway Width (m) 15.300														
Approach Bump				7	7	\perp								
Guardrail (Y/N) Yes														
Guardrail				6	6									
Length (m) 55.000														
Current Standard (Y/N) Yes														
Termination Type	Turn Do	own												
Drainage				4	4	Erc	osion @	NW s	ideslo	pes and alon	g wing	gwalls.		
Approach Road General Rating				7	7									

						Supers	structure					
Bridge Com	ponent						Explanation of Condition					
	an : PO, 3 Spa	ıns, Length	s(m	n): 15.2-29-15			•					
Special Feat												
Special Feat	ure					X						
(Type:)												
Special Feature						X						
(Type:)												
	face/Deck Top	Detail Rati	ngs									
	N (%)	1 (%)		2 (%)	3 (%)							
Last	0	0		0	0		Snow covered.					
Now	20.0	0.0		0.0	0.0		Show covered.					
Wearing Sur	Vearing Surface 5 5						(1 longit. crack center lane S2, 0.3mm wide. Map cracking in					
	ype : CONCR	ETE - CON	VEN	NTIONAL CH	IP SEA	.L	accel/decel lane S1 & 2 - photo. 2 core holes in deck East shoulder not filled to top - photo. 03/07/09). Chip sealed - minor loss of chips along deck jnts.					
(Thickness	s(mm) : 50)						SF concrete o/l placed 1995; chip seal placed in 2007.					
Lateral Conn (Y/N)	ection Probler	m No					417m of crack noted before chip seal placed. Previously 4m2 debond o/l, 9m lost seal coat.					
Deck Top					N	N						
Deck Rideab	oility				8	8						
Deck Joints					8	7	Missing 1 plow guard @ A1, 5 @ A2, 1 @ P2 & 3 @ P1. (Not required.)					
•	re (deg. C)	0					Jnts flood tested in 2009; no leakage was observed.					
(Expansion	n Type : GLAN	ID (WABO-	MA	UER, TRANS	FLEX,	ETC))						
(Fixed Typ												
Gap Size (Gap Size (mm) Gap Location											
74		S.	abu	t								
75	S. pier											
76		N.	pier	•								
75 N. abut							_					
							_					
Deck Draina	ge				4	4	NW corner has erosion from water coming around the corner. No					
Drains Clo	gged (Y/N)	No					drains.					
Curbs/Media	ın				4	4	E curb spalled @ SE abut.					
(Curb Type	e : Standard)						(Map cracking @ W curb S3. 15Sep2011). Some efflorescence on underside of curb at pier jnts and at cracks,					
Scaling (Pe	ercent Area)	0					typically spaced about half the railing post spacing. Corrosion stains and 0.5mm wide cracks U/S @ NE. U/S curb spall at NW & NE wingwall.					
Bridge Rail					5	5	Retrofit rail installed.					
(Type : GA	LVANIZED S	TEEL VER	TIC A	AL BAR)			4 panels have minor bends to vertical bars, ok.					
Bridge Rail F	Posts				5	5	15 posts have poor grout, falling					
(Type: GALVANIZED POST STEEL;GALVANIZED POST STEEL)					POST		apart - old posts.					
Bridge Rail/Posts Coating (Type : GALVANIZED)					5	5						
Sidewalk	L VARIEED)				Х	Х						
Girder Detail	Ratings											
zii zici ziciali	N (count)	1 (count)		2 (count)	3 (cou	unt)						
Last	0	0		0	<u> </u>	0	1					
Now	0	0		0		0	1					
		•										

			Supers	tructure				
Bridge Component		Last		Explanation of Condition				
(Primary Span : PO, 3 Spans,	Lengths(m): 15	5.2-29-15.2, A-lo						
Girders		4	4	(Post tensioning anchor exposed with light corrosion at North end of				
Cracking (Y/N)	Yes			S2. 15Sep2011). Spall with exposed rebar, N end of S2G3.				
Spalling (Percent Area)	1			Opan with exposed repai, in end of 3203.				
(Number Of Girders : 26)								
Diaphragms/Cross Frame		6	6	Diaphragms have 35% paint failure.				
1 0								
Bearings		4	4	Missing nut on 2 bearings @ North abutment, 3 other bearings only have 1 nut on A/B.				
Temperature (deg. C)	0			nave i nut on A/B.				
(Expansion Type : SLIDING	PLATE)							
(Fixed Type : PINNED BEAR	lING)							
Coating Adequate (Y/N)	Coating Adequate (Y/N) No			Corrosion pitting on exterior bearings all locations, 50%-75% on remainder.				
Functioning (Y/N)	Yes			Terriainder.				
Deck Underside		5	5	Narrow to medium wide transverse cracking; some cracks had				
Stains (Percent Area)	1			efflorecent staining. There is wet looking stains along S2G9; some rust stains also visible.				
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Ratir	ng	4	4					
			Subot	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments		Last	INOW	Explanation of condition				
Bearing Seats/Caps		6	5	Cracking at W end of the S abut.				
(Type : CONCRETE)				Spall at NE corner at curb interface.				
Backwalls/Breastwalls		7	7					
Wingwalls		7	7					
villigwalls		,	'					
Piles		N	N	Buried.				
Paint/Coating		Х	Х					
Abutment Stability		7	7					
Scour/Erosion		4	4	Surface erosion @ NW.				
Piers/Bents								
(Type : PIER-COLUMN)				Water staining from old leaking joints.				
Bearing Seats/Caps		5	5	E end of P1 has a delam crack on end.				
(Type : CONCRETE)		3	<u> </u>	Rebar spall underneath P1 E end. Delam crack on bottom corner P2 under outside lane.				
(Total Number of Bearing Piles	: 0.0)			3 columns each pier.				
Pier Shaft/Piles	,	7	7					
Bracing/Struts/Sheathing		X	X					
Nose Plate		X	X					
Deint/Continu		X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
Paint/Coating			X					
(Colour Description :)								
(Colour Code :)								
Pier Stability		8	8					
Scour		X	Х					
Debris (Y/N)	No							

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Substructure General Rating			5						
			/	ra Urana					
				re Usage					
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment			9						
Traffic Safety Features		9	8	Concrete retaining wall at toe of both slopes.					
Туре	Retaining Wall / Median			Concrete median. Guardrail attached to retaining wall.					
Slope Protection		4	5	50mm gap, 225 settlement @ South. 75mm gap, 300 settlement @					
(Type : CONCRETE; CONCRE	ETE)			North. Wide crack in South headslope - photo. Top of SE slope protection is settled.					
Bank Stability		7	7						
Drainage			7						
Grade Separation General Rating			7						

			Maintenance Recom	menda	ations						
Inspector Recommendations Year Inspector Comments					Department Comm	nents		Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL											
GALVANIZE/PAINT BRIDGE RAIL											
SEAL CURBS	2013	Remov AT app	e loose concrete at SE and patch voroved material.	with							
PATCH DECK											
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK JOINTS											
RESET/ PAINT BEARINGS	2013	Install r	missing nuts; paint bearings.								
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCOUR/EROSI	NC										
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION	2013	Fill eroc	ded slope @ NW, 3m3 pitrun; add te drain trough.								
OTHER ACTION	2013	Ероху	pier 2 crack on East end.								
OTHER ACTION	2013	Paint e	nd braces.								
OTHER ACTION	2013	Seal gii tight.	rder ends, ensure jnts remain wate	•r							
OTHER ACTION	2013	Seal cr	ack in slope protection.								
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No. (%)	ow) 50.0/	50.0	Sufficiency Rating (Last/Now) (%)	5	55.1/54.9	Est. Repl. Yr	2021	Maint. Red	ąd. (Y/N)	Yes	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date			Estimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen Salava	a	Prev	vious A	s Assistant's Name						
Next Inspection Date	20-Dec-2014		Prev	vious I	s Inspection Date 15-Sep-2011						
Inspection Cycle (Default) (months)	21				·	,					
Comment											