Bridge Inspection																
Bridge File Number 76650 N-1 Bridge								Form Type			PSR					
Year Built/Year		1974/197						Lo	Lot No.			2				
Supstr	1		DAD 00					Ins	Inspector Name			Kris Bosters				
Bridge or Town N		CLOVER						Ins	Inspector Class			BR CLS A				
Located Over RAMP 88-1 A;CPR							As	Assistant Name								
Located On 216:04 L1 0.719							As	Assistant Class								
Water Body Cl./Year							Ins	Inspection Date			04-Apr-2011					
Navigabil. Cl./Year					7.43.4			Data Entry By			Theresa Lacusta					
Legal Land Locat		NW SEC			23 W4	4IVI			Data Entry Date			18-Apr-2011				
Longitude, Latitude -113:20:37, 53:33:54									Reviewer Name			Arnold Assenheimer				
Road Authority		Alberta T	ransporta	ation (AI	1)				Review Date			11-Apr-2011				
Contract Main. Ar		CMA09						De	pt. Revie	wer N	ame	Brent Herrick	(			
Clear Roadway/S		12.2 / 48		IF)				De	pt. Revie	w Dat	е	19-Apr-2011				
AADT/Year		42,840 / 2		)				Fo	llow-Up B	У						
Road Classification		RAU-213	.4-120					-								
Detour Length (kr		1				.   0/	20.40					0 0 "				
Allowable Load (t	): Sin	gle CS1 GIRI			Semi	ı CS	S2 49	49 Train CS			CS	3 62> On Critical Span			ns	
Design Loading:		HS2												> Primary		
						Po	sting	nfor	mation							
Required Vert. CI	earan	ce Postin	g (m)	UNDEF	R: 88-1	I-A 6.7	7m									
Posted Vertical C	learar	nce (Y/N)		Yes												
Posted: Lane I	NB	On Br	idge (m)	6.6	ln Adv	ance	(Y/N)		Lane	SB	0	n Bridge (m)		In Advance	(Y/N)	No
Remarks	SB no	t required														
Required Load Po	osting	(t)		Single					Semi				Truck Train			
Posted Loading (t	t)			Single					Semi			Truc		ck Train		
Posted:	Lane	NB		At Junction (Y/N)		//N)	No	In Adv		nce (\	//N)	No	At Bridge (Y/N) No		No	
Posted: I	Lane								In Advance (Y/N)		//N)		At Bridge (Y/N)			
Remarks	Not re	quired														
Hazard Marker A	t Bridg	ge (Y/N)	No													
Remarks			Not req	uired												
Other Sign Types	3		Informa	tion, Ro	ute, Sp	peed,	Curve.									
						Ut	ilities (	Loca	ated at)							
Utility Attachment	ts															
Telephone								Ga	s	ι	Jnder	bridge & NW	/ & NE			
Power									Municipal							
Others I	Light s	standards.						Pro	Problem (Y/N) No							
Remarks																
							Appro									
						Last		$\neg$	planation							
Horizontal Alignm						6	6	_ l <sup>™</sup> yl	Typical alignment of grade separation.							
Vertical Alignment				7	7											
Roadway Width (m) 12.500																
Approach Bump			6	6			sil = :-	10:-	oto d===== !	C.E.	hoto					
Guardrail (Y/N) Yes				1	2 S	ections ra	all and	ı∠ po	sts damaged	5E∤	סוטוט					
Guardrail			6	4												
Length (m) 99.000																
Current Standard (Y/N) No																
Termination Type Turned Down					7	7										
Drainage						_ ′										
Approach Road	Approach Road General Rating				6	6										

						Super	structure					
Bridge Comp	onent				Last							
		ns, Leng	ıths(n	າ): 24.4-32-32			<del>-</del>					
Special Feat				,	,							
Special Feature					7 7		Underslung beams.					
	(Type : EXT LATER POST TENS)											
Special Feature						X						
(Type : )												
Wearing Surface/Deck Top Detail Ratings												
	N (%) 1 (%) 2 (%)				3 (%)		Snow/gravel on curbs.					
Last	0	0		0		0						
Now	15.0	0.0	)	0.0	(	0.0						
Wearing Surface					5	5	Small 300mm x 300mm patch missing @ N. end of P1.					
		ETE - CO	NVE	NTIONAL CH	P SEA	\L	Worn out joints.					
(Thickness)	(mm) : <b>50</b> )											
	ection Probler	n No	0									
Deck Top					N	N						
Deck Rideabi	lity				7	7						
Deck Joints					3	3	Over abutments, fingers. Over piers, gland.					
Temperatur	e (deg. C)	8										
(Expansion TRANSFLE		ER PLAT	ES;G	LAND (WAB	D-MAU	ER,	Missing 2 fingers N joint. Missing 1 finger S joint.					
(Fixed Type	: GLAND (W	ABO-MA	AUER	, TRANSFLE	K, ETC	))						
Gap Size (mm) Gap Location							O alem avende ariesia a succession O O ariesia a DO A ariesia a D DA					
45 North abutment-Exp							2 plow guards missing over pier 3, 2 missing P2, 1 missing @ P1.					
72 Pier 3							Pier joints appear to be leaking as evident by condition of caps.					
75		F	Pier 2									
78		F	Pier 1									
70			South	abutment-Exp	)							
Deck Drainag	je				5	5	(Ponding along East curb. Insufficient drains.Aug 25, 2007)					
Drains Clog	ged (Y/N)	No	0				Hole inACP at SW curb, allows water to drain under curbphoto					
Curbs/Mediar	า				4	4	Spalls on East curb S1.					
(Curb Type	: Standard)						S4 and outside face of E. curb @ P3.					
Scaling (Pe							Also spall @ outside face of W. curb @ P2 & P3. West curb over S. approach slab has grader damage over 4m length.(photo)					
Bridge Rail					8	8						
	LVANIZED S	TEEL BR	RIDGE	TUBE)			Insufficient threads at approx 5% of posts.					
Bridge Rail P				,	4	4						
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)												
Bridge Rail/Posts Coating					8	8						
(Type : GALVANIZED)						_						
Sidewalk					Х	Х						
Girder Detail	Ratings											
	N (count)	1 (coun	ıt)	2 (count)	3 (cou	unt)						
Last	0	0		0		0						
Now												

			Supers	tructure						
Bridge Component			Now	Explanation of Condition						
(Primary Span : FC, 4 Spans, Le	engths(m): 24.4-32-32	-18.3, /	4-Ident	•						
Girders		5	5	Typical FC chamfer cracks, rust spots on girders.						
Cracking (Y/N)	Yes			S4-G8 rust spot with narrow crack on 1 leg. 80% of girders have typical FC cracks. 13 girders have rust spots.						
Spalling (Percent Area)	1			oo% of girders have typical PC cracks. 13 girders have rust spots.						
(Number Of Girders : 32)	'									
Diaphragms/Cross Frame		5	5	Almost all diaphragms cracked over piers and both abutments						
Diaphiagino, erece i rame				diagonally and vertically.						
Bearings		7	7							
Temperature (deg. C)	8			Fixed at piers.						
(Expansion Type : REINFORC TEFLON AND STAINLESS ST	ED NEOPRENE BEAF [EEL]	RING W	/ITH							
(Fixed Type : REINFORCED P	AD BEARING)									
Coating Adequate (Y/N)	Yes									
Functioning (Y/N)	Yes									
Deck Underside		4	4	ASpall underside of S168 near A1. Spall under S1G4.						
Stains (Percent Area)	1			Spall S1G8 near midspan. Spall under S2G4 near midspan.						
Span Alignment Problems										
Vertical (Y/N)	No									
Horizontal (Y/N)	No									
Superstructure General Rating		4	4							
			0.1.4							
Bridge Component		Loot		ructure						
Bridge Component Abutments		Last	Now	Explanation of Condition						
Bearing Seats/Caps		5	5							
(Type : CONCRETE)										
Backwalls/Breastwalls		5	5							
Backwaiic, Broadtwaiic										
Wingwalls		6	6							
Piles		N	N							
Paint/Coating		4	4	Peeling.						
Abutment Stability		7	7							
Scour/Erosion		Х	Х							
Piers/Bents										
(Type : PIER-COLUMN)				Delam cracks on the North face, East end and underside E. end of						
Bearing Seats/Caps		4	3	the P3 cap- photo. Med. crack on top of P1 @ S.side under W. leg of G8.						
(Type : CONCRETE)				Delam ck on top of P2@N. side under W. leg of G11.  Delam ck. on top of P2 under G6/1G8 approx. 3m long.						
(Total Number of Bearing Piles :	0:0:0)									
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	8							

Substructure										
Bridge Component			Now	Explanation of Condition						
Scour			X							
Debris (Y/N)	oris (Y/N) No									
Substructure General Rating			3							
		s	Structu	re Usage						
			Now	Explanation of Condition						
Grade Separation										
Road Alignment	Road Alignment		7							
Traffic Safety Features		7	3							
Туре	Guardrail									
Slope Protection		6	5	3 posts @ S sections rail damaged SW-photo						
(Type : CONCRETE; CONC	RETE)									
Bank Stability			6	Blocks have settled 100mm top of backslope NE corner.						
Drainage			6							
Grade Separation General R		6	3							

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance Red	commend	lations						
Inspector Recommendations	Year	Inspector Comments	Department Comments					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		Investigate/confirm leakage.								
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSIC	N									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION		Replaced damaged guardrail.								
OTHER ACTION	2011	Repair pier cap delaminations.								
OTHER ACTION	2011	Repair curb spalling.								
OTHER ACTION	2011	Patch hole in ACP at West curb.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	w) 44.4/3	8.9 Sufficiency Rating (Last/N	low)	46.0/38.7	Est.	Repl. Yr	2035	Maint. Red	qd. (Y/N)	Yes
Special Monitor deck unders Comments for Next Inspection	ide spalls, de	am cracks on pier seat.		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	Arnold Assen	heimer	Previous A	: Assistant's Name Kris Bosters						
	04-Jan-2013		Previous	is Inspection Date 24-Jun-2009						
	21			,						
Comment										