Bridge Inspection																	
Bridge File Numl	ber	77556 E-1 Bridge							Form Type PSR								
Year Built/Year		1975/1975							Lot No.		2						
Supstr					Ins	Inspector Name		Kris Bosters									
Bridge or Town Name EDMONTON							Inspector Class		BR CLS A								
Located Over 216:04 R1 3.454;216:04 L1 3.43				8			Assistant Name		Dit 0207t								
Located On 25105:02 R1 1.009							Ass	Assistant Class									
Water Body Cl./Year								pection			05-Apr-2011						
Navigabil. Cl./Year									·			·	Fheresa Lacusta				
Legal Land Location NW SEC 33 TWP 52 RGE 23 V					23 W	W4M			Data Entry Date 18-Apr-2011								
Longitude, Latitude -113:20:33, 53:32:27				27					Reviewer Name		Arnold Assenheimer						
Road Authority Alberta Transporta				ation (AIT)					Review Date		11-Apr-2011						
Contract Main. A	rea	CM.	A09						-			Name	Brent Herric				
Clear Roadway/S	Skew	13.7	7 / -6 (	deg. (LHI	F)					pt. Revi			19-Apr-2011				
AADT/Year		19,9	920 / 1	1993 (E)						low-Up		110	10 / (p) 2011				
Road Classificati	ion	RAI	U-213	.4-120						iow op	<i>ک</i> ر						
Detour Length (k	m)	1															
Allowable Load (	t): Sin	gle	CS1	28		Semi	C	CS2 49			Train	CS	3 62		> On Critical Spans		ns
Danima I andiam			1100												>Critical M		
Design Loading:			HS2	5			В	osting l	nfor	motion					> Primary	Span	
Required Vert. C	learan	nce F	Postino	n (m)	LINDE	R· 216		2m, 216									
Posted Vertical (				9 (111)	Yes	1. 210	L 1 J.	2111, 210	, 111	J.ZIII							
	NB		`	idge (m)		In Adv	ance	(V/NI)	Yes	Lane	SB	(	On Bridge (m)	5.2	In Advance	(Y/NI)	Yes
						III / tav	arioc	(1/14)	100	Lanc	OD		on bridge (iii)	0.2	III / tavarioc	(1/14)	103
							Semi			Truol	ruck Train						
Posted Loading		(1)			Single				Semi				Truck Train				
Posted:	Lane		EB		Single At Junction (Y/N)			No				No	At Bridge (Y/N) No				
Posted:	Lane						` ′			In Adv		· ,	INO			INO	
				/IN)			III Auv	ance	( T/IN)		Al DI	ridge (Y/N)					
Remarks Not required.																	
Hazard Marker At Bridge (Y/N) No																	
Remarks Not required.  Other Sign Types																	
Outlot eight Type	0						U	tilities (	Loca	ted at)							
Utility Attachmen	nts																
Telephone									Ga	 S							
	Light	stano	dard o	n bridge	& ramp					Municipal							
Others				2 490	<u> </u>	<u>.                                    </u>			Problem (Y/N) No								
Remarks											,						
								Appro	ach F	Road							
							Last		$\overline{}$	Explanation of Condition							
Horizontal Alignr	nent						7	7	Off	ramp. I	nterse	ection	with turning to	Wes	t.		
Vertical Alignment				8	8												
Roadway Width (m) 11.300						AC	P & pav	/ing lip	dete	rioration @ W	. joint.	.(photo)					
Approach Bump			5 4		ACP deterioration @ E. joint.												
Guardrail (Y/N) Yes		Yes					No	Not attached to bridge.(photo)									
Guardrail					4	4		1 broken post in N. approach rail.(photo) 1 broken post in S. approach rail(photo). Insufficient number of posts @ 5W approach(photo).									
		53.000					Ins			ach(photo).							
, , ,		No															
Termination Type Turn Down																	
Drainage				3	N	and	Hole in ACP/approach slab allowing water to drain beside wingwall and under approach slabs(24-Jun-2009).  Too much gravel to confirm.				gwall						

				ļ	Approa	nch Road				
				Last						
Approach Road General Rating					7					
Duides Oam				_		tructure				
_	Bridge Component					Explanation of Condition				
(Primary Span: VF, 2 Spans, Lengths(m): 38.1-38.1,				A-ideni	Num	er: )				
Special Features										
Special Feat		T TENC		7	7					
	T LATER POS	oi ieno)			V					
Special Feat	ure				X					
(Type:)	f /D  - T	Datail Datings								
vvearing Sun	face/Deck Top			2 (0/)		Cravalias alang aurha				
Loct	N (%)	1 (%)	2 (%)	3 (%)	^	Gravel/ice along curbs.				
Last	15.0	0	0		0	4				
Now	15.0	0.0	0.0		0.0	AOD I III II OOO I				
Wearing Sur				5	3	ACP has alligatior cracking on 30% of area.  200mm dia. potholes in wheel paths S lanephoto				
	ype : ACP)					-				
(Thickness	` , ,	- NI-								
(Y/N)	nection Problem	n No								
Deck Top					N					
Dook Bidoob	sili+v			7	4	Potholes S lane				
Deck Rideability					4	Potitoles S latte				
Deck Joints					3					
Temperatu		5								
` .	n Type : <b>GLAN</b>	•				Missing 6 snow plow deflectors West abutmentphoto				
	e : <b>GLAND (W</b>			X, ETC)	))	Missing 4 snow plow deflectors pier 1photo				
Gap Size (mm) Gap Location						Missing 3 snow plow deflectors @ East abutphoto Paving lips at all joints are breaking upphoto  Measured @ S. shoulder.				
50 West abutment, exp										
Pier, fixed						*Pier joint is acting as expansion.				
East abutment, exp.										
					_					
					-					
Deck Draina	ge			3	N	(Bird bath between 7th and 8th post from SE. 94/08/11) No drains.				
Drains Clo				3	1.4	Hole in acp/approach slab @ SE corner allowing water to drain				
	· ,					below appr. slab24-June-2009				
Curbs/Media				4	4	Small popouts & spalls at approach curbs. 3 spalls on outside face around 3 bridge posts on N. side - rebar not exposed.				
	e : Standard)					SW joint coverplate is damagedphoto				
<u> </u>	ercent Area)	1				500mm long spalls SE & NE approach curbphotos				
Bridge Rail			- <b>-</b>	8	8	Bridgerail post base grout pads are cracked spalled.				
` •	LVANIZED ST	I EEL BRIDGE	: TUBE)	5	5					
	Bridge Rail Posts									
(Type: GALVANIZED POST STEEL;GALVANIZED   STEEL)										
Bridge Rail/Posts Coating					8					
(Type : <b>GALVANIZED</b> )										
Sidewalk					Х					
Girder Detail	Ratings									
Sinder Detail	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0		0					
Now		0	0							
				1		I .				

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : VF, 2 Spans, Le	engths(m): 38.1-38.1, A	A-Ident	per: )					
Girders		4	4	High load damage with strand exposed G1, S1 mid span - photo.				
Cracking (Y/N)	Yes			Typical chamfer cracks. Spall on leg of G10 under W bearingphoto				
Spalling (Percent Area) 1				opan of log of a rounder w bearing. photo				
(Number Of Girders : 20)								
Diaphragms/Cross Frame			7					
Bearings		5	5	Pier & abutment bearings inspected with binoculars. (Some pads are				
Temperature (deg. C) 5				slightly deformed. The anchor pins start bending as you go from North to South on the pier only bearing and pad alignment get worse				
(Expansion Type : REINFORC TEFLON AND STAINLESS ST	ED NEOPRENE BEAR	RING W	/ITH	as one goes South as well.				
(Fixed Type : REINFORCED P								
Coating Adequate (Y/N)	Yes							
Functioning (Y/N)	Yes							
Deck Underside		4	4	Open weep tubes are stained around abut 200 mm circle. Large spall				
Stains (Percent Area)	1			600mm x 500mm @ G10/S2 - photo.				
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Rating		4	4					
			0 1 4					
Bridge Component		Last	Now	ructure Explanation of Condition				
Abutments		Lasi	INOW	Explanation of Condition				
Bearing Seats/Caps		6	6					
(Type : CONCRETE)								
Backwalls/Breastwalls		6	6					
Wingwalls			5	Random narrow map cracking. Wide cracks with rust stains SW.				
Piles		N	N	Wide Gracks With rust stains ovv.				
Paint/Coating		5	5					
Abutment Stability		6	6					
Scour/Erosion		Х	Х					
Piers/Bents								
(Type : <b>PIER-SOLID</b> )				Patch @ South end.				
Bearing Seats/Caps		6	6					
(Type : <b>CONCRETE</b> )								
(Total Number of Bearing Piles :	0)							
Pier Shaft/Piles		7	7					
Bracing/Struts/Sheathing		X	X					
Nose Plate		Х	Х					
Paint/Coating			6	Silane sealer				
(Colour Description : )		6						
(Colour Code : )								
Pier Stability		7	7					
Scour		X	X					

			Subst	ructure			
Bridge Component			Now				
Debris (Y/N) No							
Substructure General Rating			6				
		5	Structu	re Usage			
		Last	Now	Explanation of Condition			
Grade Separation							
Road Alignment	Road Alignment						
				Light on pier is not workingphoto			
Traffic Safety Features		7	4	2 sections rail and 2 posts damaged on SBL-photo			
Туре	Guardrail / Lighting			4 sections rail and 2 posts damage on NBL.			
Slope Protection		5	5	Wide crack on East slope.			
(Type : CONCRETE; CONCR	ETE)			Wide cracks on West slope. Heaved up to 75mm along cracks.			
Bank Stability			6				
Drainage			6				
Grade Separation General Ra	ting	6	4				

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance Recommen	autionio				
Year	Inspecto	r Comments	Department Co	omments	Target Year	Est. Cost	Cat #
2011	Repair w	. paving lip.					
2011	Patch G1	I, S1 high load damage.					
2011	Replace	joint plow deflectors.					
2011	Repair ho	ole in approach slab @ SE corner, if dy done.					
2011	Replace	broken G.R. posts.					
2011	Fill acp p	otholes @ joints.					
2011	Repair lig	ghting.					
2011	Upgrade	BR to GR transition.					
2011	Replace	missing curb coverplate.					
2011	Patch sp	alls on approach curbs.					
55.6/55	.6	Sufficiency Rating (Last/Now) (%)	55.7/47.3	Est. Repl. Yr 202	9 Maint. Re	qd. (Y/N)	Yes
			Department Comments				
			Date		Estimated Tota	I 0	
	2011 2011 2011 2011 2011 2011 2011 2011	2011 Repair w  2011 Patch G  2011 Replace  2011 Repair h  not alrea  2011 Replace  2011 Fill acp p  2011 Repair lig  2011 Upgrade  2011 Replace	2011 Repair w. paving lip.  2011 Patch G1, S1 high load damage. 2011 Replace joint plow deflectors. 2011 Repair hole in approach slab @ SE corner, if not already done. 2011 Replace broken G.R. posts. 2011 Fill acp potholes @ joints. 2011 Repair lighting. 2011 Upgrade BR to GR transition. 2011 Replace missing curb coverplate. 2011 Patch spalls on approach curbs.	Patch G1, S1 high load damage.  2011 Patch G1, S1 high load damage.  2011 Replace joint plow deflectors.  2011 Repair hole in approach slab @ SE corner, if not already done.  2011 Replace broken G.R. posts.  2011 Fill acp potholes @ joints.  2011 Repair lighting.  2011 Upgrade BR to GR transition.  2011 Replace missing curb coverplate.  2011 Patch spalls on approach curbs.  55.6/55.6 Sufficiency Rating (Last/Now)  Department Comments	Vear   Inspector Comments   Department Comments	Vear   Inspector Comments	Pear   Inspector Comments

Bridge Inspection & Mainten

Alberta Transportation

Previous Inspector's Name	Arnold Assenheimer	Previous Assistant's Name	Shane Hall
Next Inspection Date	05-Jan-2013	Previous Inspection Date	24-Jun-2009
Inspection Cycle (Default) (months)	21		
Comment			

77556 E-1 Bridge