Bridge Inspection																
Bridge File Number 75420 E-5 Bridge							For	Form Type			SG					
Year Built/Year	002						Lot No.			4						
Supstr								Ins	Inspector Name			Owen Salava				
Bridge or Town Name RED DEER								Ins	Inspector Class			BR CLS A				
Located Over 2:24 R1 33.039;2:24 L1 32.98					2.981	181			Assistant Name							
Located On 11:12 R1 35.170					,			Ass	Assistant Class							
Water Body CI./									Inspection Date			19-Mar-2013	3			
Navigabil. Cl./Ye								Data Entry By			Marcia Chavez					
Legal Land Loca	C 19 TWP		27 W	4M		Dat	Data Entry Date			30-Mar-2013						
Longitude, Latitude -113:51:42								Rev	Reviewer Name			John O'Brien				
Road Authority Alberta Ti				ation (Al	Τ)			Review Date			24-Mar-2013					
Contract Main. A		CMA19						De	ot. Revie	ewer N	Name	Chris Black				
Clear Roadway/	Skew		21 deg. (Ll	HF)				De	ot. Revie	ew Da	te	09-Apr-2013				
AADT/Year			/ 2011 (A)					Fol	low-Up I	Ву						
Road Classificat		RAD-4	12.4-120					_								
Detour Length (I	<u> </u>	1												T.		
Allowable Load	(t): Sin	gle CS	31 28		Semi	CS2 49				Train	CS	3 62		> On Critic	al Spar	าร
Design Loading:		CS												>Critical Member > Primary Span		
z co.g.: zcaag.		00	7,00			Po	osting I	nforr	nation					- I milary	оран	
Required Vert. C	Clearan	ce Posti	ina (m)				~									
Posted Vertical				Yes												
Posted: Lane	NB		Bridge (m)						Lane	SB	0	n Bridge (m) 5.2		In Advance (Y/N) Yes		Yes
Remarks			load warn				, ,	Yes I. sec				U , ,		111111111111111111111111111111111111111	(- ,)	
Required Load F				Single	,			Semi				Truck Train				
Posted Loading		(4)		Single				Semi				Truck Train				
Posted:	Lane	ЕВ		At Junction (Y/N)			No		In Advance (Y/N)		V/NI\	No	At Bridge (Y/N) No		No	
Posted:	Lane	WB					INO		In Adva			INO	At Bridge (Y/N)		INU	
Posted: Lane WB At Junction (\) Remarks Not required.				1) 11011	714)			III / tave	1100 (1/14)		/ (C D)	iago (1/14)			
			No													
Hazard Marker At Bridge (Y/N) No Remarks Not required.																
Other Sign Type	· · · · · · · · · · · · · · · · · · ·		Not led	uireu.												
Other Oight Type						Ut	ilities (oca	ted at)							
Utility Attachmer	nts					<u> </u>		_0.00	tou ut)							
Telephone	· ·	no mark	ers.					Ga	 S							
Power			under bridg	je.				Municipal								
Others	_		I @ SE/SV		S.				Problem (Y/N) No							
Remarks																
							Approa	ich R	load							
						Last			Explanation of Condition							
Horizontal Aligni	ment					8	8	Tra	ffic light	s to E	ast &	West.				
Vertical Alignme	nt					7	7									
Roadway Width (m) 14.900										ed 160mm.			_	_		
Approach Bump				5	5		mps ont									
Guardrail (Y/N) Yes																
Guardrail			8	7												
Length (m) 76.000																
Current Standard (Y/N) Yes						Thrie beam transitions.										
Termination Type Turn Down						1 ''''	io boain	13								
Drainage					4	6	All	trough d	Irains	broke	n/settled at to	p - re	pair appears t	o be w	orking.	
Approach Road	l Gene	ral Rati	ng			7	7									

					Supers	tructure
Bridge Component						Explanation of Condition
(Primary Span : WG,		ns. Lenaths	s(m): 42-42. A-			
Special Features		, y	` ,			,
Special Feature					X	
(Type:)						
Special Feature					X	
(Type:)						
Wearing Surface/Dec	ck Ton [Detail Ratin	ne en			
N (%)		1 (%)	2 (%)	3 (%)		
Last 0		0	0		0	
Now 10	-	0.0	0.0		0.0	Snow along curbs.
	7.0	0.0	0.0	7		Very thick.
Wearing Surface	2D CO	AIVENITION	IAL CUID CEA		6 	very trick. Longit. cracks.
(Material Type : AC		NVENTION	IAL CHIP SEA	L COAT	1)	
(Thickness(mm): 1	170)			1		
Deck Top				N	N	
Deck Rideability				8	8	
Deck Joints				4	6	
Temperature (deg.	C)	0				
(Expansion Type :	GLAND	(SILICON	SEAL))			
(Fixed Type :)						
Gap Size (mm)		Gap	Location			
88		East	abutment			
80		Wes	t abutment			
Deck Drainage				8	7	
Drains Clogged (Y/	/N)	No				
Curbs/Median	•	<u>'</u>		7	7	Typical narrow vertical cracking @ 1.2m interval.
(Curb Type : Stand	dard)					Typical narrow vertical cracking @ 1.2m interval. Typical narrow transverse cracking with efflorescence staining at
Scaling (Percent A		0				curb U/S. 130mm curb exposed ~170mm ACP.
Bridge Rail	,			8	8	·
(Type : GALVANIZ	FD ST	FFI BRIDG	F TUBF)			
Bridge Rail Posts				8	8	
(Type : GALVANIZ STEEL)	ZED PO	ST STEEL;	GALVANIZED		<u> </u>	
Bridge Rail/Posts Co.	ating			8	8	
(Type : GALVANIZ						1
Sidewalk	·			X	X	
Girder/Beam						
Cover Plate				Х	Х	
Flange					8	1
Web					8	
Stiffeners				8	8	
Splice				8	8	1
Weld				8	8	
Diaphragms/Cross F	rame			8	8	
_ /35385,0100011						

				tructure
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, L	engths(m): 42-42, A-Id	dent N	umber:	A1333-01)
Paint Condition		8	8	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings			8	
Temperature (deg. C)	0			
(Expansion Type : REINFORC TEFLON AND STAINLESS ST	ED NEOPRENE BEAR EEL)	ING W		
(Fixed Type :)				
Coating Adequate (Y/N) Yes				
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		9	9	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		7	7	
Abutment Stability		9	9	
Scour/Erosion		Х	X	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles :	0)			Single shaft.
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		Х	X	
Nose Plate		Х	X	
Paint/Coating		8	8	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		Х	Х	
Debris (Y/N)	No			

Substructure												
Bridge Component	Last	Now	Explanation of Condition									
Substructure General Rating	8	8										
	_											
Structure Usage												
	Last	Now	Explanation of Condition									
Grade Separation												
Road Alignment	8	8										
Traffic Safety Features	5	5										
Type Guardrail												
Slope Protection	8	8	Abutment 1 settled 20mm out, 60mm down. Abutment 2 settled									
(Type : CONCRETE; CONCRETE)			25mm out, 60mm down.									
Bank Stability	5	5										
Drainage	4	4	(Low area at toe East abutment concrete slope, apparently ponds. 14Sep2011).									
Grade Separation General Rating	4	4										

Bridge Inspection & Maintenance System (Web 2005)

75420 E-5 Bridge

					ľ	Maintenance	Recommend	lations						
Inspector Recommendations			Year Inspector Comments			s		Department	t Commer	nts		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL				•				·						
GALVANIZE/PAINT BRIDGE RAIL														
RETROFIT BRIDGE RAIL														
SEAL CURBS														
PATCH DECK														
SEAL DECK														
OVERLAY DECK														
REPAIR/REPLACE DECK JOINTS														
RESET/ PAINT B	EARINGS													
REPAINT SUPER	STRUCTURE													
STRAIGHTEN/RE	PLACE MEMBERS													
WASHING														
SHOTCRETE RE	PAIRS													
REPAIR ABUTME	ENT SCOUR/EROSI	ON												
PLACE ADDITION	NAL RIP RAP													
REMOVE DRIFT	ACCUMULATION													
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/Now) (%)			83.3/83.3		Sufficiency Rating (Last/Now) (%)		st/Now)	62.8/62.8	Es	st. Repl. Yr	2063	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection	ponding	- away fr	om traffic	c and behind	d barrier.		Department Comments	t						
Maintenance Rev	iewed By							Date			E	stimated Total	0	
Proposed Long-Term Strategy														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name Ower			Owen Salava Previo					vious Assistant's Name						
Next Inspection D	ate	19-Dec	:-2014				Previous	Previous Inspection Date 14-Sep-2011						
Inspection Cycle	Default) (months)	21												
Comment	, , , , ,													