						:	ridge Ir	nspectio	on						
Bridge File Number 77547 E-1 Bridge								Form Type			PSR	PSR			
Year Built/Year 1974/1974							Lot No.			1					
Supstr							Inspector Name			Garry Ro	Garry Roberts				
Bridge or Town	Name							Inspector Class				BR CLS A			
Located Over		BOW RIV		B, WATE	RCRS-	ST		Assistant Name							
Located On		22X:04 R	1 2.534					Assistant Class							
Water Body Cl./								Inspection Date			28-Jan-2	28-Jan-2013			
Navigabil. Cl./Y	ear							Data Entry By			Erin Rob	Erin Roberts			
Legal Land Location SE SEC 25 TWP 22 RGE 1 W5N					1 W5M						19-Feb-2	9-Feb-2013			
Longitude, Latitude -114:00:40, 50:53:37								Reviewer Name Tom Car							
Road Authority		Alberta T	ransporta	ation (AI	Γ)			Review Date				06-Feb-2013			
Contract Main.	Area	DEERFO	OT/STO	NEY				Dept. F	Reviewe	r Nam	ne Tim Davi	es			
Clear Roadway	Skew	12.2 /							·			013			
AADT/Year		15,870 / 2	2011 (A)					Follow							
Road Classifica	tion														
Detour Length (	km)	1													
Allowable Load	(t): Sir	ngle CS1	28		Semi	i CS2 49			Trai	n (	CS3 62		> On Critical Spans		
Design Leading		1100											>Critical Member		
Design Loading		HS2	5			Posting Information							> Primary	Span	
Required Load Posting (t) Single					Posting ii		Se				True	ck Train			
Posted Loading		(4)	Single			30.0		Se			47.0		ck Train	63.0	
Posted:	Lane	ЕВ		At Junc	tion (Y/	NI)	No.		Advance	(Y/N			Bridge (Y/N)	Yes	
Posted:	Lane	WB		At Junc			No		Advance		<u> </u>		Bridge (Y/N)	No	
					only. Appears posting not required.								110		
Hazard Marker At Bridge (Y/N) No						трросто	poomi	11011091	an oa.						
Remarks	THE DITE	gc (1/1 <b>1)</b>	140												
Other Sign Type			City file	tag 3118	8 on P1										
Other Olgh Type			Oity IIIO	tag o i it	3 0111 1		ilities (L	Located	at)						
Utility Attachme	nts														
Telephone	In are	a.						Gas							
Power	Unde	rground in	area.					Munici	unicipal Sewage forcemain at SW.						
Others		t lights.						Problem (Y/N) No							
Remarks															
							Approa	ch Roa	d						
					L	.ast	Now	Explan	ation of	Con	dition				
Horizontal Align	ment					7	7								
Vertical Alignme	ent					6	6								
Roadway Width	(m)		13.000												
Approach Bump	)					7	7								
Guardrail (Y/N)							lap at S			4	- 4 - 4 N N A /				
Guardrail				8	3	Accide	nt dama	ge to	1 w-beam a	na 1 pos	st at NVV.				
Length (m)			30.000												
Current Stand	ard (Y/	N)	Yes												
Termination T	уре		TURNE	D DOW	N										
Drainage						8	7								
Approach Road General Rating					7	6									

					Supers	tructure				
Bridge Comp	onent			Last		Explanation of Condition				
		ns, Lengths(r	n): 36.6-36.6-	36.6-36		-30.5, A-Ident Number: )				
Special Featu	ıres									
Special Feature					7	Dwydag bars.				
(Type : EXT LATER POST TENS)										
Special Feature					Х					
(Type:)										
Wearing Surfa	ace/Deck Top	Detail Rating	S							
	N (%) 1 (%)		2 (%)	3 (%)						
Last										
Now	10.0	0.0	0.0	0.0						
Wearing Surface				6	8					
(Material Ty	pe : <b>ACP</b> )			'						
(Thickness(	mm) : <b>50</b> )									
Lateral Conne (Y/N)	ection Probler	n No								
Deck Top				N	N					
Deck Rideabil	lity			7	8					
Deck Joints					4	Sealed glands at abuts.				
Temperatur	e (deg. C)	-1				Koch joints at all piers. Staining at abuts and piers may be previous to joint installments or				
(Expansion Type: ARMOURED GLAND (WABO UNDER FING OR SLIDING PLATES); GLAND (WABO-MAUER, TRANSFLE ETC))						may indicate joint leakage. Wide cracks in koch joints at P3 and P4. Pier gaps measured at sidewalk. A2=90mm.				
(Fixed Type		01								
Gap Size (m	nm)	·	ocation							
100         West abut           50         P1										
80 P3 50 P4										
45		P5								
	•	Fθ		8	4	Looking dock joints and woon tubes sourcing arcaign gradies				
Deck Drainag		NI-		8	4	Leaking deck joints and weep tubes causing erosion cracks.				
Drains Clog		No		7	7	Doronata at North and Couth aboutless land				
Curb Type		EV: Ctondord		7	7	Parapets at North and South shoulder lane.				
		EY;Standard)								
Scaling (Per	iceni Area)	<u></u> 5		0	0	Sidowalk rail has govern A/D puts with loss their full thread				
Bridge Rail	VANIZED O	TEEL VEDTIO	AL DAD	8	8	Sidewalk rail has several A/B nuts with less then full thread. Several grout pads are spalled.				
		TEEL VERTIC	AL BAK)	0						
Bridge Rail Po		OST STEEL \		8	4					
	VANIZED PO	OSI SIEEL)		7	7					
Bridge Rail/Posts Coating										
(Type : GALVANIZED) Sidewalk					3	Heavy scaling. Span 1 south fascia is spalling over path and road. Also spalled at P4 and at SE.				
Girder Detail F	Ratings									
	N (count)	1 (count)	2 (count)	3 (cou	ınt)	Span 3 and 4 not accessible for full inspection. Span 1 - G9 has high				
Last	(554111)	i (Sourit)	_ (Journ)	0 (000		load damage with visible corroding strand and rebar.				
Now	18	0	0		12					

		,	Supers	tructure				
Bridge Component		Last		Explanation of Condition				
(Primary Span : VF, 6 Spans, I	_engths(m): 36.6-36.6-3	6.6-36	.6-30.5	-30.5, A-Ident Number: )				
Girders		8	3	Corrosion cracks and heavy staining at NW underside from weep				
Cracking (Y/N)			tubes. Wide vertical cracks at NW and at South over P3, P4, P5 exterior girders. Typical chamfer cracks extending into deck					
Spalling (Percent Area) 10				underside. Span 5- G1 wide cracks, G2 wide crack and spall, Span				
(Number Of Girders : 54)				6- G1 wide crack and spall, G2 wide crack, G8 and G9 high load damage with spalling at G9.				
Diaphragms/Cross Frame		8	8					
Bearings		7	7					
Temperature (deg. C)	-1							
(Expansion Type : REINFOR TEFLON AND STAINLESS S		RING W	/ITH					
(Fixed Type : )		1						
Coating Adequate (Y/N)	Yes							
Functioning (Y/N)	Yes							
Deck Underside		7	7					
Stains (Percent Area)	0							
Span Alignment Problems		I						
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Ratir	ıg	5	3					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments	-							
Bearing Seats/Caps		6	4	Spall at NW from low cover rebar.				
(Type : <b>CONCRETE</b> )								
Backwalls/Breastwalls		7	7					
Wingwalls		7	4	Minor spall at SW.				
Piles		N	N	Buried.				
Paint/Coating		3	5					
Abutment Stability		8	8					
Scour/Erosion		8	5	Minor erosion at SE headslope and wing.				
Piers/Bents								
(Type : PIER-SOLID)				P2 and P3 are patched at North ends.				
Bearing Seats/Caps		4	7	1 2 and 1 3 are pateried at North ends.				
(Type : CONCRETE)		· · ·	'					
(Total Number of Bearing Piles	: 0:0:0:0:0)			Wide vertical settlement cracks in all shafts.				
Pier Shaft/Piles		4	6					
Bracing/Struts/Sheathing		X	X	Minor spall at SW.				
Nose Plate		5	7					
Paint/Coating		5	5					
(Colour Description : )								
(Colour Code : )								
Pier Stability		9	8					
Scour		N	N	Water too deep at P2, P3, P4. P1 and P5 are dry.				

Substructure											
Bridge Component		Last	Now	Explanation of Condition							
Debris (Y/N)	No										
Substructure General Rating	'	4	4								
		5	Structu	re Usage							
		Last	Now	Explanation of Condition							
Channel											
(U/S Direction: N)			Local roads and paths under span 1 and 6. Posted V.C. at 5.0 m.								
(D/S Direction : S)											
Alignment			8								
Bank Stability			8								
HWM (m below Top of Curb)				No visible HWM.							
Drift (Y/N)	No										
Slope Protection		8	8								
(Type: RIP RAP; RIP RAP)											
Guidebank/Spurs		Х	X								
Adequacy of Opening			8								
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2	NONE)										
Channel General Rating		8	8								

77547 E-1 Bridge

Bridge Inspection & Maintenance System (Web 2005)

			Maintenance Recon	nmenda	ations					
Inspector Recommendations	•	Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #		
REPAIR/REPLACE BRIDGE RAIL	2	2013	1 post 1 rail at NW approach.							
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS	2	2013	Path South fascia approx 10m2.							
PATCH DECK										
SEAL DECK	2	2013	Epoxy sealer on sidewalk							
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	2	2013	Seal koch joints P3, P4. Flood test all join	nts.						
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSI	ON									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2	2013	Level 2 girder inspection. Investigate and repair girder cracks and spalls. Repair hi load damage at Sp 1 - G9, Sp 6- G8, G9	d igh ).						
OTHER ACTION	2	2013	Install V.C. signs at SW and SE and in advance.							
OTHER ACTION	2	2013	Repair NW abutment spall approx 0.5m2	2.						
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow)	50.0/38.9 Sufficiency Rating (Last/N (%)			72.4/51.0	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Keith Ho	olliston	Pre	evious A	Assistant's Name					
Next Inspection Date 28-Oc		2014	Pre	evious I	s Inspection Date 04-Dec-1987					
Inspection Cycle (Default) (months)	21				·					
Comment										