Bridge Inspection & Maintenance System (Web 2005)

						Brig	dge Ir	nspectio	n						
Bridge File Num	ber	06615 -1	Bridge				3	Form T			SG				
Year Built/Year		1960/196						Lot No. 2							
Supstr								Inspect	Inspector Name Owen Salava						
Bridge or Town	Name	DRUMHE	ELLER					Inspector Class BR CLS A							
Located Over		RED DEER RIVER, 3, WATERO							nt Name						
Located On		9:06 C1 1	.534						nt Class						
Water Body CI./	Year								ion Date		01-Nov-2011				
Navigabil. Cl./Ye								Data E			Marcia Chavez				
Legal Land Loca	ation	NE SEC	11 TWP	29 RGE	20 W4M						24-Nov-2011				
Longitude, Latitu	ude	-112:42:4	3, 51:28	:04		Data Entry Date Reviewer Name					John O'Brier	-			
Road Authority		Alberta Transportation (AIT)						Review			13-Nov-2011				
Contract Main.										Name	Andrew Smi				
Clear Roadway/	lear Roadway/Skew 9 /							· ·			24-Nov-201				
AADT/Year						Dept. Review Date Follow-Up By					24-1100-201	1			
Road Classificat	tion								ор Ву						
Detour Length (km)	5													
Allowable Load	(t): Sin	ngle Se						Train					> On Criti	cal Spans /lember	
Design Loading:	sign Loading: HS20												> Primary	Span	
Poorgin Eoddinig: TIOE0						Post	ing Ir	nformati	on				J	•	
Required Load Posting (t)			Single				Sei	Semi			Truck Train				
Posted Loading (t)				Single				Sei	ni			Truck Train			
Posted:	Lane				tion (Y/N)) N	0	In A	Advance	(Y/N)	No	At B	ridge (Y/N)	No	
Posted:	Lane	SB At Junction (0		Advance	·	No		ridge (Y/N)	No	
Remarks	Not re	equired.										1			
Hazard Marker		·	No												
Remarks Not required.															
Other Sign Type						Deer	River	. Max 35	km/hr. N	<i>Aemori</i>	al plaques at	NW a	and SE.		
								ocated							
Utility Attachme	nts G	AS UTILI	LIES: OT	HER UT						HONE	LINE				
Utility Attachments GAS UTILITIES; OTHER UTILI Telephone In East sidewalk.			- ,			Gas		U/S si							
Power								Municip	al						
Others	New c structu	conduit underside west curb. Stre				•									
Remarks															
						Ap	oproa	ch Roac							
					La		Now	Explanation of Condition							
Horizontal Align	ment					5	5	Sharp of	urves bo	oth end	s. In town of	Drum	heller.		
Vertical Alignme	ent					6	6								
Roadway Width	(m)		11.500					Pothole	at A1 N	В.					
Approach Bump						6	6	1							
Guardrail (Y/N)			Yes					13 sect	on flexb	eam at	NW. Concret	te bai	riers SE.		
Guardrail						6	6	Chain li	nk fence	@ SW	Ι.				
Length (m)			48.000				-	Curb/si	dewalk e	xtends	splice bolts beyond bridg	e priot ge at	o. both ends.		
Current Stand	ard (Y/	N)	No								,	,			
Termination T		-/	Bulb en	d				1							
Drainage	785					6	6								
						5	5								
Approach Road															

Bridge Component Last Now Explanation of Condition (Primary Span : RB, 5 Spans, Lengths(m): 27.4-34.4-34.4-34.4-27.4, A-Ident Number: A0289-01) Special Features	
Special Features	
Special Feature X	
(Type:)	
Special Feature X	
(Type:)	
Wearing Surface/Deck Top Detail Ratings	
N (%) 1 (%) 2 (%) 3 (%)	
Last	
Now 0.0 0.0 0.0 0.0	
Wearing Surface 6 Local delam in S1 center of lane.	2m x 0.4.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)	
(Thickness(mm) : 50)	
Deck Top N N	
Deck Rideability 6 6	
Deck Joints 6 6	
Temperature (deg. C) -5	
(Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))	
(Fixed Type :)	
Gap Size (mm) Gap Location	
55 N. abutment	
45 S. abutment	
Deale Drainage	ant on onrow still gots onto girdor
Deck Drainage 5 5 Deck drains should be 300mm lor Drains Clogged (Y/N) No flanges.	iger as spray still gets onto girder
	· · · ·
Curbs/Median 7 7 Concrete parapet between road &	sidewalk.
(Curb Type : STRAIGHT WALL)	
Scaling (Percent Area) 0	
Bridge Rail 7 7	
(Type : GALVANIZED STEEL VERTICAL BAR;NON-STANDARD RAIL)	
Bridge Rail Posts 4 5 Many A/B undersized nuts.	
(Type : GALVANIZED POST STEEL)	
Bridge Rail/Posts Coating 9 9	
(Type : GALVANIZED)	
Sidewalk 7 7	
Girder/Beam	
Cover Plate 7 7 (All spans inspected from ice. 21/I	Feb/2009).
Flange 7 7	
Web 7 7	
Stiffeners 7 7	
Stiffeners 7 7	
Stiffeners 7 7	

Alberta Transportation

			Supers	tructure
Bridge Component				Explanation of Condition
(Primary Span : RB, 5 Spans, I	_engths(m): 27.4-34	4.4-34.4-34	.4-27.4	, A-Ident Number: A0289-01)
Paint Condition		5	5	Girders only.
(Colour Description : GREEN))			Rusting at deck drain locations.
(Colour Code : 14090)				
Touchup Required (Y/N)	No			
Bearings		5	5	Steel plates on neoprene both abuts.
Temperature (deg. C)	-5			Rockers over P1-2 & 4, fixed on P3. (1 bearing has cracked weld on G4P4. 2003/10/04).
(Expansion Type : ROCKER	BEARING)			9 pier A/B nuts & washers missing. P1 - 5, P2 - 0, P3 - 0, P4 - 4.
(Fixed Type : PINNED BEAR	ING)			NW abut bearing missing one A/B at exterior.
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	5			
Span Alignment Problems	-			
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Ratin		5	5	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments		Lasi	NOW	
Bearing Seats/Caps		7	7	Moderate scaling both abuts.
(Type : CONCRETE)			1	
Backwalls/Breastwalls		7	7	
			· ·	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	Х	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)		I		
(Total Number of Bearing Piles	: 0:0:0:0)			(Vertical crack full height P2, both sides - photo. 21/Feb/2009)
Pier Shaft/Piles		7	7	Unable to verify.
Bracing/Struts/Sheathing		X	Х	
Nose Plate		7	7	
Paint/Coating		4	4	Rusting nose plate.
(Colour Description :)			T	
(Colour Description .)				
Pier Stability		7	7	
Scour		N	6	
Debris (Y/N)	Yes			Rebar at south headslope.
Substructure General Rating		7	7	

		5	re Usage					
			Now	Explanation of Condition				
Channel								
(U/S Direction : W)				WSC gauge station @ SW corner.				
(D/S Direction : E)		_						
Alignment		7	7					
Bank Stability			7					
HWM (m below Top of Curb)				HWM not visible. Flood gauge on P2.				
Drift (Y/N)	Drift (Y/N) No							
Slope Protection 6			6	Old concrete & gabion on S, natural on N.				
(Type : NATURAL; GABION)				Gabions losing rocks, rebar sticking out of S hslp. N abut bagged concrete.				
Guidebank/Spurs			7	N bank u/s & d/s.				
Adequacy of Opening			7					
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		6	6					

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	Ì		Maintenance Recommendations	nmendations	0		-	-		
Inspector Recommendations	Year	Inspect	Inspector Comments	Dep	Department Comments	ents	•	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 BEARINGS	2012	Install 9 Repair (Install 2 abutme	Install 9 anchor bolt nuts & washers. Repair cracked weld on bearing keeper plate. Install 25mm dia x 150L A/B & nut on NW abutment bearing.	olate. V						
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION	Z									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Remove	Remove S rebar hslp.							
Structural Condition Rating (Last/Now) (%)	w) 66.7/66.7	6.7	Sufficiency Rating (Last/Now) (%)) 57.7/58.2		Est. Repl. Yr	2030	Maint. Reqd. (Y/N)		Yes
Special See 2003 Cover Plate report for diaphragm & bearing details. Comments for Next Inspection	e report for di	aphragm 8	& bearing details.	Com	Department Comments					
Maintenance Reviewed By				Date			Es	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)	7									
Proposed Action	2006.05.10 Rehab 2008/2009 \$900	ehab 2008,	\$/2009 \$900,000							
Previous Inspector's Name	Owen Salava		Pre	Previous Assistant's Name	ant's Name					
Next Inspection Date	01-Aug-2013		Pre	Previous Inspection Date	tion Date	11-Mar-2010				
Inspection Cycle (Default) (months)	21									
Comment										

Maintenance Reco						commen	dations						
Inspector Recom	mendations		Year	Inspect	or Comments		Department C	Comme	nts		Target Year	Est. Cost	Cat #
REPAIR/REPLAC	CE BRIDGE RAIL												
GALVANIZE/PAI	NT BRIDGE RAIL												
RETROFIT BRID	GE RAIL												
SEAL CURBS													
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLAC	CE DECK JOINTS												
RESET/ PAINT E	EARINGS		2012	Repair of Install 2	anchor bolt nuts & washers cracked weld on bearing kee 5mm dia x 150L A/B & nut c nt bearing.	eper plate.	Programmed				2012		
REPAINT SUPE	RSTRUCTURE												
STRAIGHTEN/REPLACE MEMBERS													
WASHING													
SHOTCRETE REPAIRS													
REPAIR ABUTMENT SCOUR/EROSION													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
OTHER ACTION			2012	Remove	e S rebar hslp.		Programmed				2012		
Structural Condition Rating (Last/Now) (%)			66.7/66	.7	Sufficiency Rating (Last/ (%)	Now)	57.7/58.2	Es	t. Repl. Yr	2030	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	nments for					Department Comments	Rehat	ehab scheduled in PMA for 2021. DA					
Maintenance Reviewed By Darror			h Ahlsted	lt			Date	30-Oc	t-2012		Estimated Total 0		
Proposed Long-Term Strategy													
On 3-Year Progra	am (Y/N)	Y	(
Proposed Action		2006.0)5.10 Re	hab 2008	3/2009 \$900,000								
Previous Inspect	or's Name	Owen	Salava			Previous	Assistant's Nar	me					
Next Inspection [Date	01-Auc	a-2013			Previous	s Inspection Date 11-Mar-2010						

Inspection Cycle (Default) (months)	21
Comment	