

Bridge Inspection														
Bridge File Number	75336 -1 Bridge							Form Type	SG					
Year Built/Year Supstr	1961/1961							Lot No.	2					
Bridge or Town Name	RED DEER							Inspector Name	Owen Salava					
Located Over	2:24 R1 36.427;2:24 L1 36.371							Inspector Class	BR CLS A					
Located On	11A:06 R1 14.235;11A:06 L1 14.227							Assistant Name						
Water Body Cl./Year								Assistant Class						
Navigabil. Cl./Year								Inspection Date	20-Mar-2013					
Legal Land Location	SW SEC 5 TWP 39 RGE 27 W4M							Data Entry By	Marcia Chavez					
Longitude, Latitude	-113:51:42, 52:19:03							Data Entry Date	05-Apr-2013					
Road Authority	Alberta Transportation (AIT)							Reviewer Name	John O'Brien					
Contract Main. Area	CMA19							Review Date	24-Mar-2013					
Clear Roadway/Skew	10.7 /							Dept. Reviewer Name	Chris Black					
AADT/Year	5,040 / 2011 (A)							Dept. Review Date	09-Apr-2013					
Road Classification	RAU-213.4-120							Follow-Up By						
Detour Length (km)	16													
Allowable Load (t):	Single	CS1 54 GIRDER			Semi	CS2 65 GIRDER			Train	CS3 75 GIRDER			---> On Critical Spans --->Critical Member	
Design Loading:	HS20							---> Primary Span						
Posting Information														
Required Vert. Clearance Posting (m)	UNDER: 2 L1 5.6m, 2 R1 5.6m													
Posted Vertical Clearance (Y/N)	Yes													
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.6	In Advance (Y/N)	Yes		
Remarks														
Required Load Posting (t)	Single						Semi						Truck Train	
Posted Loading (t)	Single						Semi						Truck Train	
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks	Not required.													
Hazard Marker At Bridge (Y/N)	No													
Remarks	Not required.													
Other Sign Types														
Utilities (Located at)														
Utility Attachments														
Telephone	South r/w.							Gas						
Power	3 wire 30m North of c/l Hwy 11A.							Municipal						
Others	Street lights to South.							Problem (Y/N)	No					
Remarks														
Approach Road														
				Last	Now	Explanation of Condition								
Horizontal Alignment				7	7	Crest curve. Intersection to E & W.								
Vertical Alignment				7	7									
Roadway Width (m)	21.600													
Approach Bump				7	7									
Guardrail (Y/N)	Yes													
Guardrail				7	7									
Length (m)	30.400													
Current Standard (Y/N)	Yes													
Termination Type	Turn Down													
Drainage				6	6									
Approach Road General Rating				7	7									

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 4 Spans, Lengths(m): 13.7-26.5-26.5-13.7, A-Ident Number: A0366-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow at shoulders.	
Last	10	0	0	0		
Now	10.0	0.0	0.0	0.0		
Wearing Surface			7	7		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	7		
Temperature (deg. C)		-6		A1,2		
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
92		E. abut				
100		W. abut				
Deck Drainage			6	6		
Drains Clogged (Y/N)		No				
Curbs/Median			5	6	Efflorescence @ U/S, trans. cracks @ 0.5 - 2m spacing. Long. cracking in exterior curb U/S & deck interface.	
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			5	5		
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts			3	5		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			N	5	Some high load scrapes. Bottom flange has slight sag.	
Flange			5	5		
Web			7	7		
Stiffeners			X	X		
Splice			7	7		
Weld			N	5	Cover plate welds appear to be repaired.	
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 4 Spans, Lengths(m): 13.7-26.5-26.5-13.7, A-Ident Number: A0366-01)				
Paint Condition		4	4	Rust blooming through 15% area of webs. Bottom flange & edges of flanges superficial corrosion @ W abut S half of bridge.
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Touchup Required (Y/N)	No			
Bearings		9	9	Exp: A1, A2.
Temperature (deg. C)	-6			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	6	Trans. cracks @ 1 to 2m. Recent rehab.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		5	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		7	7	Guy wires along median.
Type	Guardrail			
Slope Protection		4	4	Pulled away & settled 100mm @ top @ both E & W. Settled 100mm @ W to E. Buckling @ bottom of W & E concrete slope - photo.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	4	Concrete pushed against pier column.
Drainage		6	6	
Grade Separation General Rating		6	4	

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	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						
REPAINT SUPERSTRUCTURE	2020	Paint bridge.				
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2015	Repair slope protection.				
OTHER ACTION	2013	Assess painting strategies/options.				
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	48.2/43.8	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Department Comments
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Maintenance Reviewed By	Date	Estimated Total	0
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Proposed Long-Term Strategy 2008.03.28 With Rehab in 2010 bridge should be good until 2035.RS

On 3-Year Program (Y/N) Y

Proposed Action 2008.03.28 Rehab 2010.

Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
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Next Inspection Date	20-Dec-2014	Previous Inspection Date	25-Oct-2012
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Inspection Cycle (Default) (months) 21

Comment

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	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						
REPAINT SUPERSTRUCTURE	2020	Paint bridge.	Defer until replacement	2023		
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2015	Repair slope protection.	Defer until next time onsite			
OTHER ACTION	2013	Assess painting strategies/options.	Defer until replacement	2023		
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	48.2/43.8	Est. Repl. Yr	2023	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Structure is currently scheduled for replacement in PMA for 2023. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	01-May-2013	Estimated Total	0
Proposed Long-Term Strategy	2008.03.28 With Rehab in 2010 bridge should be good until 2035.RS					
On 3-Year Program (Y/N)	Y					
Proposed Action	2008.03.28 Rehab 2010.					
Previous Inspector's Name	Owen Salava		Previous Assistant's Name			

Next Inspection Date	20-Dec-2014	Previous Inspection Date	25-Oct-2012
Inspection Cycle (Default) (months)	21		
Comment			