

Bridge Inspection							
Bridge File Number	75540 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1966/1966			Lot No.	1		
Bridge or Town Name	ACADIA VALLE			Inspector Name	Owen Salava		
Located Over	KENNEDY COULEE, 3.4, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	41:10 C1 30.544			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	18-Jul-2012		
Legal Land Location	SE SEC 28 TWP 25 RGE 2 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-110:13:27, 51:09:21			Data Entry Date	02-Aug-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA22			Review Date	31-Jul-2012		
Clear Roadway/Skew	12.8 /			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	620 / 2011 (A)			Dept. Review Date	07-Aug-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	HS20						---> Primary Span

Posting Information								
Required Load Posting (t)	Single				Semi		Truck Train	
Posted Loading (t)	Single				Semi		Truck Train	
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	SB	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	Prairie Elev Museum; Acadia Valley Lt; Oyen 31km							

Utilities (Located at)			
Utility Attachments			
Telephone	At West side.		Gas
Power	Crossing 250m South.		Municipal
Others	Fibre optics East r/w.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Acadia Valley intersection 250m South. No passing SB.
Vertical Alignment		8	8	
Roadway Width (m)	10.800			Minor scrapes.  Insufficient length and posts.
Approach Bump		6	7	
Guardrail (Y/N)	Yes			
Guardrail		N	6	
Length (m)	26.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		N	6	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 1 Spans, Lengths(m): 8.5, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	5	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			5	7	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	ACP covered.
Deck Rideability			7	7	
Deck Joints			N	N	Paved over; crack reflecting through ACP at centreline.
Bump (Y/N)		No			
Deck Drainage			N	6	
Drains Clogged (Y/N)		No			
Curbs/Median			N	4	Several plow scrapes. Anchorage @ NW corner cracked and chipped - photo. Chips outside West curb.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail			N	6	Single layer. Minor scrapes.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			N	4	NW post anchorage damaged.
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			N	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	15	0	1	6	
<b>Now</b>	15	0	1	6	
Girders			2	2	Rating 2 carried forward based on previous inspector's comments from 19Aug2009.
Last Complete Inspection Date		19-Aug-2009			
Cracking (Y/N)		Yes		(Hairline shear cracks 3 girders.	
Spalling (Percent Area)		15		Most girders wide longit. cracks in AZ.	
Lift or Connector Pocket Grouted (Y/N)		Yes		G4 S end spall with degraded concrete above main bars - photos.	
(Number Of Girders : <b>15</b> )				G6-10,15 spalls in AZ.	
				80% of end diaphragms have drift spalls.	
				11/15 girders 2 legs or spalls in AZ. 19Aug2009)	
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>2</b>	<b>2</b>	Rating carried forward from 19Aug2009 for girders.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	100	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				N	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				N	N	
Greatest Height (m)		2.50				
Wingwalls				N	6	
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	100	0	0	0		
<b>Now</b>	18	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				N	4	
Scour/Erosion				N	4	
(S breastwall/scabs detached from piles, gaps & cracked planks N backwall. 19Aug2009).						
Localized scour/channel excavation under bridge.						
<b>Piers/Bents</b>						
(Type : )						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				X	X	
(Type : )						
(Depth(mm) : )						
(Width(mm) : )						
(Total Number of Bearing Piles : )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				N	6	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						
150 x 200 TT struts.						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Shallow banks and large flood plain.
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		N	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	5	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
SEAL CURBS	2012	Patch curb & post anchors.								
PATCH DECK										
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS	2012	If not yet done.								
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Remove fill from South abutment scabs and reattach scabs, if not yet done.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.7/59.9</b>	<b>Est. Repl. Yr</b>	<b>2019</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	(Inspect yearly until replaced. 19Aug2009). Re-inspect in Fall to confirm if girder legs have been repaired as girders' condition cannot be confirmed at thsi inspection. LRA emailed to Donald Saunders 01Aug2012.		Department Comments							
Maintenance Reviewed By			Date			Estimated Total	0			
Proposed Long-Term Strategy	2008.11.12 Road strategy-remove existing ACP and place new ACP overlay over bridge. Bridge should be adequate until 2019. CB									
On 3-Year Program (Y/N)	Y									
Proposed Action	Complete girder leg repairs in 2009 BY HMC.									
Previous Inspector's Name	Jason Saly	Previous Assistant's Name								
Next Inspection Date	18-Apr-2014	Previous Inspection Date								
Inspection Cycle (Default) (months)	21	29-Mar-2011								
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2012	Patch curb & post anchors.	Programmed	2014		
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS	2012	If not yet done.	Completed			
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2012	Remove fill from South abutment scabs and reattach scabs, if not yet done.	Programmed	2014		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.7/59.9</b>	Est. Repl. Yr	2019	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	(Inspect yearly until replaced. 19Aug2009). Re-inspect in Fall to confirm if girder legs have been repaired as girders' condition cannot be confirmed at thsi inspection. LRA emailed to Donald Saunders 01Aug2012.		Department Comments	Maintenance programmed in 2014 based on 2012 coring and assessment report. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	17-Apr-2013	Estimated Total	0
Proposed Long-Term Strategy	2008.11.12 Road strategy-remove existing ACP and place new ACP overlay over bridge. Bridge should be adequate until 2019. CB					
On 3-Year Program (Y/N)	Y					
Proposed Action	Complete girder leg repairs in 2009 BY HMC.					
Previous Inspector's Name	Jason Saly		Previous Assistant's Name			
Next Inspection Date	18-Apr-2014		Previous Inspection Date	29-Mar-2011		
Inspection Cycle (Default) (months)	21					

Comment	
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