

Bridge Inspection									
Bridge File Number	83031 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1986/1986				Lot No.	2			
Bridge or Town Name	MIRROR				Inspector Name	Dave Lam			
Located Over	PARLBY CREEK, 3.65.2.1.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	13-Jul-2011			
Legal Land Location	NE SEC 27 TWP 40 RGE 22 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:05:06, 52:28:27				Data Entry Date	21-Aug-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	UNDEFINED CMA				Review Date	28-Jul-2011			
Clear Roadway/Skew	4 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	5 / 2011 (E)				Dept. Review Date	29-Aug-2011			
Road Classification					Follow-Up By				
Detour Length (km)	999								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member		
Design Loading:	HS25						---> Primary Span		

Posting Information									
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	At Bridge (Y/N)	No	
Posted:	Lane	WB	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									
Other Sign Types	Not required.								

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curves both ways.
Vertical Alignment		7	7	Access to farmland land access over water stabilization channel. Access via 40417 field approach, follow road for 1.2km to structure.
Roadway Width (m)	4.000			Lock code - 7656 to access lock on gate inside field.
Approach Bump		5	5	
Guardrail (Y/N)	No			
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)	No			
Termination Type				
Drainage		5	5	
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>CC, 3 Spans, Lengths(m): 4.4-4.4-1.4, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			7	Gates to control water flow to S. Guide channel along E cell pier wall. Gate structure grating is damaged from being driven over by heavy equipment.	
(Type : )					
Special Feature			3	SE grate missing nut on bolts (photo 5).	
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface		6	X	Crack at NW wing.	
(Material Type : )					
(Thickness(mm) : )					
Deck Top		6	6	Cast-in-place; deck 300mm thick.	
Deck Rideability		6	7		
Deck Joints		X	X	Bump due to gravel approach, minor.	
Temperature (deg. C)					
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Deck Drainage		6	6	PVC.	
Drains Clogged (Y/N)		No			
Curbs/Median		6	4	CURB ON SOUTH REMOVED to install gate structure, N edge only. Cracked NW corner (photo).	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			1	Bridgerail on N removed. Should be replaced with fold down rail or removable rail for safety reasons & to accommodate wide farm equipment. 1 section of rail removed at SW corner & not put back (photo).	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		X	1		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		X	6		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girders		X	X		
Diaphragms/Cross Frame		X	X		
Bearings		X	X		
Temperature (deg. C)					
(Expansion Type : )					
(Fixed Type : )					
Coating Adequate (Y/N)					
Functioning (Y/N)					
Deck Underside		X	7	Lots of swallow nests (photo).	
Stains (Percent Area)		0			
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>CC, 3 Spans, Lengths(m): 4.4-4.4-1.4, A-Ident Number: )</b>				
<b>Superstructure General Rating</b>		<b>6</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		6	X	
Backwalls/Breastwalls		6	6	CIP monolithic with deck.
Wingwalls		6	4	Wide diag. crack at NW corner (photo).
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	Concrete floor slab.
Scour/Erosion		6	6	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				Greatest Height 3.1m. Deck to streambed 3.2m.
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Pier Shaft/Piles		6	6	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		6	6	
Scour		6	4	Small scour hole at u/s end (photo).
Debris (Y/N)	Yes			Logs & grass caught inside both cells.
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible - control structure. Logs/grass.
Drift (Y/N)	Yes			
Slope Protection		6	6	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2011	Replace N side rail with fold down/removable railing; reinstall SW railing.								
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP	2011	Repair local scour at u/s end of pier.								
REMOVE DRIFT ACCUMULATION	2011									
OTHER ACTION	2011	Patch cracked NW corner of curb.								
OTHER ACTION	2011	Patch & seal diag. crack on NW wingwall.								
OTHER ACTION	2011	Replace missing steel guide channel for gate on E cell pier wall.								
OTHER ACTION	2011	Repair/replace damaged grates; install nuts for anchor bolts where missing.								
OTHER ACTION										
OTHER ACTION										
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OTHER ACTION										
<b>Structural Condition Rating (Last/Now)</b>	<b>66.0/72.2</b>	<b>Sufficiency Rating (Last/Now)</b>	<b>57.1/62.6</b>	<b>Est. Repl. Yr</b>	<b>2022</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	AE advised they inspect structure annually & perform maintenance regularly. AT & AE should coordinate inspection/maintenance to streamline effort.		Department Comments							
Maintenance Reviewed By		Date				Estimated Total	0			
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Aime Theroux	Previous Assistant's Name								
Next Inspection Date	13-Oct-2014	Previous Inspection Date	10-Jul-2002							
Inspection Cycle (Default) (months)	39									

Comment	
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**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Replace N side rail with fold down/removable railing; reinstall SW railing.	Defer, Low priority				
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2011	Repair local scour at u/s end of pier.	Defer, Low priority				
REMOVE DRIFT ACCUMULATION	2011						
OTHER ACTION	2011	Patch cracked NW corner of curb.	Defer, Low priority				
OTHER ACTION	2011	Patch & seal diag. crack on NW wingwall.	Defer, Low priority				
OTHER ACTION	2011	Replace missing steel guide channel for gate on E cell pier wall.	Defer, Low priority				
OTHER ACTION	2011	Repair/replace damaged grates; install nuts for anchor bolts where missing.	Defer, Low priority				
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OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.0/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.1/62.6</b>	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	AE advised they inspect structure annually & perform maintenance regularly. AT & AE should coordinate inspection/maintenance to streamline effort.		Department Comments	Structure programmed to be sealed in 2012. AS			
Maintenance Reviewed By	Andrew Smikles		Date	15-Aug-2012	Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							

Proposed Action			
Previous Inspector's Name	Aime Theroux	Previous Assistant's Name	
Next Inspection Date	13-Oct-2014	Previous Inspection Date	10-Jul-2002
Inspection Cycle (Default) (months)	39		
Comment			