

Bridge Inspection									
Bridge File Number	09596 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1970/1970				Lot No.	2			
Bridge or Town Name	MAYERTHORPE				Inspector Name	Wade Nanninga			
Located Over	PADDLE RIVER, 8.11.84.30, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	22:32 C1 31.106				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	03-Oct-2011			
Legal Land Location	NW SEC 28 TWP 56 RGE 8 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:08:32, 53:52:11				Data Entry Date	25-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA12				Review Date	25-Oct-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,420 / 2010 (A)				Dept. Review Date	26-Oct-2011			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	13								
Allowable Load (t):	Single		Semi		Train		----> 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									
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	Strung along W curb.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farm entrance to SE. Bridge on uphill grade to North. Limited sight distance due to sag curve. No passing NB.				
Vertical Alignment			6	6					
Roadway Width (m)	8.600				SW - 34.2m; SE - 30.4m; NE - 60.8m; NW - 64.6m. Not to standard hwy length.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	31.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			3	3	Runoff @ NE corner eroded fill creating large hole & erosion under timber wingwall. Windrows under rail impeding drainage.				
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : PM, 3 Spans, Lengths(m): 13.7-16.8-13.7, A-Ident Number: )							
<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>	50	0	0	0			
<b>Now</b>							
Wearing Surface			6	4	50mm void in concrete at N pier holding water.-photo		
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )							
(Thickness(mm) : <b>75</b> )							
Lateral Connection Problem (Y/N)		No					
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			7	7	Abutment joints covered by chip seal coat.		
Temperature (deg. C)		10					
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )							
(Fixed Type : <b>BUFFER ANGLES</b> )							
Gap Size (mm)		Gap Location					
75		S. pier					
70		N. pier					
Deck Drainage			7	7			
Drains Clogged (Y/N)		No					
Curbs/Median			N	4	Medium SP1		
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)		5					
Bridge Rail			7	7	Double layer.		
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )							
Bridge Rail Posts			7	7			
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating			7	7			
(Type : <b>GALVANIZED</b> )							
Sidewalk			X	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>							
Girders			5	5	G1S1, G11S2 and G10S2 have rust spots on underside - not related to strands. Water stains between curb and 1st interior. S1G1 chipped SW corner.		
Cracking (Y/N)		No					
Spalling (Percent Area)		0					
(Number Of Girders : <b>33</b> )							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 13.7-16.8-13.7, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		6	7	
Temperature (deg. C)	10			
(Expansion Type : <b>NEOPRENE STRIP BEARING</b> )				
(Fixed Type : <b>NEOPRENE STRIP BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		N	5	
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		N	N	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		6	6	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		6	5	Scaling W side of N cap.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>5:5</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		4	4	Superficial rust to 1m above ground line.
(Colour Description : <b>GREEN</b> )				
(Colour Code : <b>14090</b> )				
Pier Stability		8	8	
Scour		N	6	
Debris (Y/N)	Yes			Log and drift on US of pier.(photo)
<b>Substructure General Rating</b>		<b>6</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		Yes		Large drift caught at opening.-photo
Slope Protection (Type : <b>NATURAL; NATURAL</b> )		6	6	Field stones armouring corners of slope.
Guidebank/Spurs		7	X	
Adequacy of Opening		8	6	Drift caught b/w piers - 2m high
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2011	Fill void at pier 2					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2011	Fill hole @ NE corner, consider installing concrete drain troughs.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2011	At piers.					
OTHER ACTION	2011	Remove windrows at 4 corners.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.8/62.6</b>	Est. Repl. Yr	2029	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Arnold Assenheimer		Previous Assistant's Name	Shane Hall			
Next Inspection Date	03-Jul-2013		Previous Inspection Date	14-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							