

Bridge Inspection							
Bridge File Number	72186 S-1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1965/1965			Lot No.	1		
Bridge or Town Name	WANDERING RI			Inspector Name	Wade Nanninga		
Located Over	WANDERING RIVER, 8.11.55.3, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	63:02 C1 45.220			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	14-Nov-2011		
Legal Land Location	SW SEC 6 TWP 72 RGE 16 W4M			Data Entry By	Lisa Fairhurst		
Longitude, Latitude	-112:28:05, 55:11:58			Data Entry Date	12-Dec-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA07			Review Date	23-Nov-2011		
Clear Roadway/Skew	11 / -20 deg. (LHF)			Dept. Reviewer Name	Brent Herrick		
AADT/Year	3,790 / 2010 (A)			Dept. Review Date	19-Dec-2011		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	8						
Allowable Load (t):	Single	CS1 46 GIRDER	Semi	CS2 73 GIRDER	Train	CS3 104 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	"Wandering River"						

Utilities (Located at)			
Utility Attachments			
Telephone	NE Corner, W Row		Gas
Power	# Wire, E Row		Municipal
Others	Pumphouse SE Corner		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Long curve to north. Property accesses at all four corners. Slight grade to south. No passing both ways.
Vertical Alignment		6	6	
Roadway Width (m)	11.400			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		3	7	
Length (m)	38.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		7	7	
<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): 13.7-15.2-13.7, 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>					
<b>Now</b>	10.0	0.0	0.0	0.0	
Wearing Surface			7	4	Random wide trans & long cracks unravelling at S abut. - photo
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>90</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	All covered with asphalt.
Temperature (deg. C)		0			
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Deck Drainage			4	6	
Drains Clogged (Y/N)		Yes			
Curbs/Median			6	N	( S2, West side with shrinkage crack & spot corrosion.) - 11 Mar 10 Snow Covered
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Insufficient thread on anchor bolts at a few locations. OK as retrofit posts installed for strengthening. 2 posts SP2 E side - spalling concrete not affecting post anchorage.
(Type : <b>GALVANIZED STEEL BOX BEAM TYPE 2</b> )					
Bridge Rail Posts		5	4		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Girders			5	5	Honeycombing on bottom of several units, G13-S1, G7-S2, G3-S3.
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : <b>39</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 13.7-15.2-13.7, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	-3			
(Expansion Type : )				
(Fixed Type : <b>NEOPRENE STRIP BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		X	X	
Stains (Percent Area)				
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			50mm shifting of precast due to skew.
Horizontal (Y/N)	Yes			
<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		6	5	
(Type : <b>STEEL</b> )				
Backwalls/Breastwalls		5	5	Timber backwall.
Wingwalls		X	X	
Piles		N	N	
Paint/Coating		4	4	Caps with superficial rust.
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	Double HP 305 x 79 caps on steel corbels welded to steel capitals.
(Type : <b>STEEL</b> )				
(Total Number of Bearing Piles : <b>16:16</b> )				
Pier Shaft/Piles		N	N	16/pier; plus 2 non-bearing piles @ South pier. (Cored void in P2, North side of P1. 2003/05/14)
Bracing/Struts/Sheathing		4	4	Timber sheathing 75 x 254 to within 1.0 m of caps. Not low enough.
Nose Plate		4	4	Nose plate - light gauge sheet metal. Nose plate not low enough.-photo
Paint/Coating		4	4	Superficial rust on ends of caps.
(Colour Description : <b>BLUE</b> )				
(Colour Code : <b>15182</b> )				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Old Piles
<b>Substructure General Rating</b>		<b>3</b>	<b>3</b>	G.R. for pile carried over from coring report.

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection (Type : <b>NATURAL; NATURAL</b> )		7	7	Deadfall in channel.
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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	Coldmix abutments					
SEAL DECK	2011	Cracks					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	AT to review file and comment if action was taken to repair rotten piles noted in 2003 coring report.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.8/59.8</b>	Est. Repl. Yr	2019	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	AT to review file and comment if action was taken to repair rotten piles noted in 2003 coring report.		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	Wade Nanninga			
Next Inspection Date	14-Aug-2013		Previous Inspection Date	11-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							