

Bridge Inspection									
Bridge File Number	00149 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1970/1970				Lot No.	2			
Bridge or Town Name	HOBBEMA				Inspector Name	Owen Salava			
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	822:04 C1 1.658				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	07-Feb-2013			
Legal Land Location	SW SEC 34 TWP 44 RGE 23 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:16:08, 52:49:45				Data Entry Date	20-Feb-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA17				Review Date	13-Feb-2013			
Clear Roadway/Skew	8.5 / -25 deg. (LHF)				Dept. Reviewer Name	Chris Black			
AADT/Year	770 / 2011 (A)				Dept. Review Date	14-Mar-2013			
Road Classification	RCU-208-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 44 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 68 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										
Hazard Marker At Bridge (Y/N)	Yes									
Remarks	Mounted to 1st guardrail post.									
Other Sign Types										

Utilities (Located at)									
Utility Attachments									
Telephone	Plowed in West ditch.				Gas				
Power	2 wires OH 25m West of c/l. Power crosses road 50m South.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			5	5	Winding curves at both ends that can be driven at 100 kmph but limited sight distance. Farm entrance 20m South. Curve all in "No passing" zone. Historical point of interest 100m SW.  Not thrie beam.				
Vertical Alignment			7	7					
Roadway Width (m)	9.000								
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			5	5					
Length (m)	21.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 2 Spans, Lengths(m): 27.4-27.4, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		8	8	2 per span.	
(Type : <b>EXT LATER POST TENS</b> )					
Special Feature		8	8		
(Type : <b>UNDERSLUNG DIAPHR</b> )					
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		6	6	Concrete overlay with steel fibers. Isolated wide longitudinal & transverse cracks @ c/l of roadway & middle of lanes on both sides.	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>85</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		4	4	2 broken plow guards @ A2. A1 plumbing flooding bearing seats at SW/SE due to icing. Paving lip breaking up at N end.  Finger plates on South end.	
Temperature (deg. C)		-7			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
15	S. abut.				
85	Pier				
76	N. abut.				
Deck Drainage		5	5	Plumbing leaks at South abutment, flooding seat.	
Drains Clogged (Y/N)		No			
Curbs/Median		5	5	(Scaling/delam at SE corner caused by plow - photo. 03Mar2010) - Not visible due to snow. Minor chip at WP1, not spall.	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail		7	7	100 x 100mm HSS tubes.  152 x 152mm HSS steel posts, grout pads all okay. Spot surface rusting started.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		7	7		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		6	6		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 27.4-27.4, A-Ident Number: )				
Girders		4	4	Horiz. narrow cracks @ flange to web transition zone. Medium horiz. cracks about 2.0m long on outside of exterior girder above bottom flange @ SW, SE & NW corners - photo (NW marked & dated). Cracks on inside of girder. Also found on sides & under bottom flanges of sev'l units. Many hairline cracks in the deck to girder transition. Typical diagonal cracks at end diaphragms.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 12)				
Diaphragms/Cross Frame		8	7	Rusting spalled @ south abutment/diaphragm.
Bearings		6	6	Minor distortion, no problem.
Temperature (deg. C)	-7			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				Old staining. Heavy staining on both ends of pier.
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	Some rust at base. Grey.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Channel makes 60 degree bend starting @ 50m D/S to East.
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	Ditch drainage @ SE protruding from headslope protection.
(Type : <b>CONCRETE; CONCRETE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair A1 plumbing; check for debris damming water. Patch paving lip at N jnt.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace 2 plow guards at A2.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.7/64.8</b>	Est. Repl. Yr	2028	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor horiz. cracks at transitions on all girders; NW marked & dated. Monitor diagonal cracks in AZ at both abuts.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	07-May-2016		Previous Inspection Date	03-Mar-2010			
Inspection Cycle (Default) (months)	39						
Comment							