

Bridge Inspection											
Bridge File Number	01062 -1 Bridge				Form Type	PSR					
Year Built/Year Supstr	1960/1960				Lot No.	2					
Bridge or Town Name	DONALDA				Inspector Name	Owen Salava					
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	53:12 C1 0.032				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	29-Nov-2012					
Legal Land Location	NE SEC 35 TWP 41 RGE 17 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-112:20:30, 52:34:28				Data Entry Date	06-Dec-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA20				Review Date	03-Dec-2012					
Clear Roadway/Skew	10 /				Dept. Reviewer Name	Andrew Smikles					
AADT/Year	1,390 / 2011 (A)				Dept. Review Date	10-Dec-2012					
Road Classification	RAU-211.8-110				Follow-Up By						
Detour Length (km)	32										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> 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	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)	Yes								
Remarks									
Other Sign Types	River ID; "Centerline rumble strip".								

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	Water gauging station at SE corner.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Farm entrance both ends. No passing, blind curve to the East & West.				
Vertical Alignment			6	6					
Roadway Width (m)		10.000			Creased but functional. Scaling rust on rail. 93m @ NE, 74m @ SE, 59.0m @ SW, 38m @ NE.				
Approach Bump			7	7					
Guardrail (Y/N)		Yes							
Guardrail			5	5					
Length (m)		38.000							
Current Standard (Y/N)		Yes							
Termination Type		Turn Down							
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 3 Spans, Lengths(m): 20.7-26.2-26.2, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7	Center & East span.	
(Type : <b>EXT SHEAR STIRRUP</b> )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
<b>Last</b>	0	0	0	0	
<b>Now</b>	40.0	0.0	0.0	0.0	
Wearing Surface		6	6	FRC. Chipseal 40% worn away.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	5	Pier jnt leakage staining piers, possibly old. Ice on A1,2 backwall, possible leak. Ice on P1 face, S side.	
Temperature (deg. C)		-15			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
65		A1			
72		P1			
76		P2			
65		A2			
Deck Drainage		5	5	Concrete stains & rusty caps under P2 jnt on pier.	
Drains Clogged (Y/N)		No			
Curbs/Median		5	5	Underside of curbs covered with swallow nests. Typical vertical cracking.	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		15			
Bridge Rail		7	7	Original railing. 45% of posts have perforations at base with web almost completely gone. Scaling rust to 90% of surface - original railing. Retrofit rail installed; governs rating.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		7	7		
(Type : <b>POST STEEL;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>	4	0	0	0	
<b>Now</b>	0	0	0	0	
Girders		7	7	Typical sole plate cracks.	
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : <b>12</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 3 Spans, Lengths(m): 20.7-26.2-26.2, A-Ident Number: )				
Diaphragms/Cross Frame		7	4	Scaling rust. S2G3,4 diaphragm spalled.
Bearings		6	6	Pier bearings sit on a stiffened HP.
Temperature (deg. C)	-15			Scaling rust.
(Expansion Type : <b>STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	Crack, effloresence & crack on backwalls.
Wingwalls		6	6	Scaling on SW corner.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	5	Minor gullies @ A1.
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				(2 delaminations on side of caps where pipe meets cap. 28Sep2006). Stained from leaking joints; unable to verify.
Bearing Seats/Caps		4	4	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Full surface rusted, superficial.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	Unbalanced fill W side of P1.
Scour		7	7	
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>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Concrete sandbags under bridge only on headslopes. Deteriorating natural banks, minor.
(Type : <b>NATURAL; NATURAL</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>Channel General Rating</b>		<b>5</b>	<b>5</b>	



Comment	
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