

Bridge Inspection										
Bridge File Number	75543 W-2 Bridge					Form Type	PSR			
Year Built/Year Supstr	1965/1965					Lot No.	2			
Bridge or Town Name	Salisbury Interchange					Inspector Name	Wade Nanninga			
Located Over	216:04 L1 6.509;216:04 R1 6.525					Inspector Class	BR CLS A			
Located On	SHERWOOD PARK FREEWAY:02 L1 3.309					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	14-Jan-2013			
Legal Land Location	SE SEC 29 TWP 52 RGE 23 W4M					Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-113:20:42, 53:30:47					Data Entry Date	26-Mar-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE					Review Date	25-Mar-2013			
Clear Roadway/Skew	15.8 / 16 deg. (RHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	33,860 / 2011 (A)					Dept. Review Date	02-Apr-2013			
Road Classification	RAU-213.4-120					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 39 GIRDER			Semi	CS2 55 GIRDER		Train	CS3 71 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information													
Required Vert. Clearance Posting (m)		UNDER: 216 L1 5.3m, 216 R1 5.3m											
Posted Vertical Clearance (Y/N)		Yes											
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	
Remarks		NB on south structure. Spot measured on East shoulder @ 5.7m.											
Required Load Posting (t)		Single				Semi				Truck Train			
Posted Loading (t)		Single				Semi				Truck Train			
Posted:	Lane	EB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)				
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		Not required.											
Other Sign Types		Information, Speed, Direction.											

Utilities (Located at)									
Utility Attachments									
Telephone						Gas	South r/w.		
Power						Municipal			
Others	Lighting.					Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Typical grade separation on/off ramps crest curve.
Vertical Alignment		6	6	
Roadway Width (m)	12.500			Not connected to bridge. Minor dents @ NW - possible broken posts
Approach Bump		5	5	
Guardrail (Y/N)		Yes		
Guardrail		4	4	
Length (m)	38.000			
Current Standard (Y/N)		No		
Termination Type		Bulb / Turn Down		
Drainage		N	N	Hole in ACP @ NW corner along approach curb. Water draining under road approach - photo.-02-Jun-2009
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 4 Spans, Lengths(m): 12.2-19.8-19.8-12.2, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7		
(Type : EXT LATER POST TENS)					
Special Feature			7		
(Type : UNDERSLUNG DIAPHR)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	20	0	0	0	
<b>Now</b>	30.0	0.0	0.0	0.0	
Wearing Surface			5	5	Chip seal on FRC (70mm). 2% missing. Large 3m x 1.5m patch worn off West of P3 in North lane.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	4	No apparent leakage. 1 bolt missing North lane @ P3 but plate still tight. Plow guards missing at abutments - 50%
Temperature (deg. C)		-5			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC); ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
Gap Size (mm)		Gap Location			
79		W. abut - Exp.			
25		Pier 1			
35		Pier 2 - Fixed			
35		Pier 3			
80		E. abut - Exp.			
Deck Drainage			5	5	
Drains Clogged (Y/N)					
Curbs/Median			4	4	Few spots spalled. Rust staining. Wide delam crack North curb S1. 300mm long spall outside face @ South side of P1.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	4	6 vertical slats bent. (AB nuts not fully engaged. 9 Mar 2011)
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts		4	N		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Cracking & delam G1 S2 @ P1.
<b>Last</b>	0	0	0	1	
<b>Now</b>	0	0	0	1	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>FC, 4 Spans, Lengths(m): 12.2-19.8-19.8-12.2, A-Ident Number: )</b>				
Girders		3	3	Wide shoe plate cracks due to shoe plate pack rust. Typical chamfer cracks. Delamination cracks with stains on S2-G1, G10 and S3-G10. Appears to be from rebar with low cover in bottom of legs.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	3			
(Number Of Girders : <b>40</b> )				
Diaphragms/Cross Frame		4	4	Cracking at random diaphragms. 400mm long spall in diaphragm @ West end S1G1.
Bearings		4	4	Grout pads are deteriorating. Choo-choo bearings @ P1 & P3.  Cracked shoe plates.
Temperature (deg. C)	-5			
(Expansion Type : <b>ROLLER BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Stains and spalling @ weep holes in ext girders. Weep tubes no longer active with HPC overlay.
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		4	4	400mm long spall @ center of bearing seat @ A1 Wide delam cracks throughout A1.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		4	4	
Abutment Stability		7	7	
Scour/Erosion		X	5	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				Delam cracks P1 North & South, P2 North & South, P3 North & South. Wide delam crack 1.5m long on top of P2 under G7 & G8 girder legs. Wide delam crack 1.0m long @ P3 under G9/G10 bearing - photo.
Bearing Seats/Caps		4	4	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0</b> )				Delam crack North column P3 - photo.
Pier Shaft/Piles		4	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Pigmented sealer.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		3	3	West guardrail at North approach has become detached from 6 posts. Two broken median posts - photo.
Type	Median / Guardrail			
Slope Protection		5	5	Wide cracks West headslope.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		N	N	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>3</b>	<b>3</b>	



Comment	
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