

Bridge Inspection										
Bridge File Number	81157 W-2 Bridge					Form Type	PSR			
Year Built/Year Supstr	1997/1997					Lot No.	2			
Bridge or Town Name	EDMONTON					Inspector Name	Wade Nanninga			
Located Over	216:04 R1 9.892;216:04 L1 9.879;216:04 C1-1OL 9.885;216:04 C1-1OR 9.894					Inspector Class	BR CLS A			
Located On	14:03 L1 0.910;628:04 L1 0.000					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	10-Jan-2013			
Legal Land Location	SW SEC 16 TWP 52 RGE 23 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:20:34, 53:28:59					Data Entry Date	05-Feb-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE					Review Date	17-Jan-2013			
Clear Roadway/Skew	16.1 /					Dept. Reviewer Name	Brent Herrick			
AADT/Year	10,010 / 2011 (A)					Dept. Review Date	14-Feb-2013			
Road Classification	RAD-412.4-120					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 216 C1-1OL 5.3m, 216 C1-1OR 5.3m, 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)	5.4	In Advance (Y/N)	Yes
Remarks		NB posted on south bridge.										
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)		Yes										
Remarks		Not required.										
Other Sign Types		Information, Speed, Directional.										

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	On/Off ramps. Typical grade separation. Recent patch on approaches.
Vertical Alignment		7	7	
Roadway Width (m)		16.100		ACP has wide cracks at ends of approach slabs.
Approach Bump		5	5	
Guardrail (Y/N)		Yes		1 post leaning and 2 rail sectins dented SE.photo
Guardrail		4	4	
Length (m)		87.400		
Current Standard (Y/N)		Yes		
Termination Type		Turn Down		
Drainage		6	6	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>CBC, 4 Spans, Lengths(m): 29-37-37-29, A-Ident Number: )</b>						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Gravel/ice along curbs.	
<b>Last</b>	5	0	0	0		
<b>Now</b>	20.0					
Wearing Surface			7	7	Random narrow longitudinal cracking in deck.	
(Material Type : <b>CONCRETE</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			7	6	Paving lips have a few 100mm dia. spalled areas.	
Temperature (deg. C)		-15				
(Expansion Type : <b>FINGER PLATES</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
70		East abutment - Exp.				
85		West abutment - Exp.				
Deck Drainage			4	4	Deck joint plumbing allows runoff to splash against breastwall.	
Drains Clogged (Y/N)		No				
Curbs/Median			7	7	Narrow vertical cracks with efflorescence staining. At approx 2m intervals.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			5	5	Minor dent in South rail.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			8	8		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			8	8		
(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>						
Girders			8	8		
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>9</b> )						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBC, 4 Spans, Lengths(m): 29-37-37-29, A-Ident Number: )				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	
Temperature (deg. C)	-15			
(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		8	8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>8</b>	<b>8</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	Caps have narrow vertical cracks.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5:5)				
Pier Shaft/Piles		7	7	Narrow map cracking.
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	1% peeling.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	Grey.
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		8	8	
Traffic Safety Features		4	7	
Type	Lighting / Guardrail			
Slope Protection		6	6	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>7</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							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace broken guardrail and posts.					
OTHER ACTION	2013	Seal cracks in ACP at approaches.					
OTHER ACTION	2013	Extend drain troughs @ abutment headslopes.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>83.3/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>70.1/71.6</b>	Est. Repl. Yr	2064	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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	10-Oct-2014		Previous Inspection Date	04-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							