

Bridge Inspection									
Bridge File Number	77556 W-2 Bridge				Form Type	PSR			
Year Built/Year Supstr	1975/1975				Lot No.	2			
Bridge or Town Name	EDMONTON				Inspector Name	Kris Bosters			
Located Over	216:04 R1 3.436;216:04 L1 3.420				Inspector Class	BR CLS A			
Located On	25105:02 L1 1.000				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	05-Apr-2011			
Legal Land Location	NW SEC 33 TWP 52 RGE 23 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:20:32, 53:32:27				Data Entry Date	18-Apr-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA09				Review Date	11-Apr-2011			
Clear Roadway/Skew	13.7 / -6 deg. (LHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	19,920 / 1993 (E)				Dept. Review Date	19-Apr-2011			
Road Classification	RAU-213.4-120				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:	HS25						----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 216 L1 5.2m, 216 R1 5.2m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	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)		In Advance (Y/N)		At Bridge (Y/N)					
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		Information.										

Utilities (Located at)										
Utility Attachments	POWER UTILITIES-POWER LINE									
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		8	8	
Roadway Width (m)	11.200			Slight sag @ E. approach @ S. lane @ W. approach. ACP cracked and ravelling at approach slabs-photo.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Not attached to bridge (photo), insufficient posts.
Guardrail		6	4	
Length (m)	53.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7		
(Type : <b>EXT LATER POST TENS</b> )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	Gravel/ice along curbs.
<b>Last</b>	0	0	0	0	
<b>Now</b>	15.0	0.0	0.0	15.0	
Wearing Surface		4	3	Roof slabs have patches in asphalt. Potholes developing.(photo) 1-1mx0.5m pot holes N lane wheel paths.-photo 1 pothole in S. lane. Wide longitudinal cracks in ACP along wheel paths.	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		7	4	Potholes	
Deck Joints		3	3	Potholes in acp @ E. joint(photo). Paving lip & acp deteriorating at abutments and piers. Exposed rebar at E. joint, could become hazardous if caught by plow.-photo 6 plow deflectors missing. 2 plow deflectors missing. 3 plow deflector missing.	
Temperature (deg. C)		5			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
50		East abutment, exp.			
35		Pier, fixed			
50		West abutment, exp.			
Deck Drainage		5	5	No drains.	
Drains Clogged (Y/N)		No			
Curbs/Median		6	4	Minor plow scraps. 200mm dial spall with rusting rebar N curb-photo Spalled under 2 post locations N curb.	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail		8	8	Staining at base of posts on outside of girders.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		7	7		
(Type : <b>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>	0	0	0	0	
<b>Now</b>					
Girders		4	4	Typical cracking in chamfer. Rust staining and delam crack on bottom of N. leg @ G9SP1, likely from stirrups.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>18</b> )					
Diaphragms/Cross Frame		6	6		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number: )				
Bearings		5	5	Pier & abutment bearings inspected with binoculars, slight deformation of pads.
Temperature (deg. C)	26			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	4	Stains and spalls at weep holes underside of girders.
Stains (Percent Area)	1			
<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		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		6	5	Medium shear cracks NE.
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		7	3	None of the lights are working.
Type	Guardrail / Lighting			
Slope Protection		4	4	Wide cracking up to 50mm East slope.(photo). Wide cracks on West slope. Heaved up to 50mm.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>7</b>	<b>3</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	Patch ACP in deck.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Repair paving lip.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Replace joint snow plow deflectors.					
OTHER ACTION	2011	Repair lighting					
OTHER ACTION	2011	Upgrade BR to AR transition.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.1/45.9</b>	Est. Repl. Yr	2029	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor slope protection. Monitor delam and rust staining at S1G9.		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	Shane Hall			
Next Inspection Date	05-Jan-2013		Previous Inspection Date	24-Jun-2009			
Inspection Cycle (Default) (months)	21						
Comment							