

Bridge Inspection									
Bridge File Number	76093 W-2 Bridge				Form Type	PSR			
Year Built/Year Supstr	1968/1968				Lot No.	2			
Bridge or Town Name	EDMONTON				Inspector Name	Wade Nanninga			
Located Over	CNR				Inspector Class	BR CLS A			
Located On	SHERWOOD PARK FREEWAY:02 L1 0.505				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Jan-2013			
Legal Land Location	SW SEC 30 TWP 52 RGE 23 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:23:11, 53:31:03				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	12.5 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	33,860 / 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		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20				----> Primary Span				

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	CNR											
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												
Hazard Marker At Bridge (Y/N)		No										
Remarks		Not required.										
Other Sign Types		HS20										

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Structure at top of hill, steep grate to the West. Limited site distances.
Vertical Alignment		6	6	
Roadway Width (m)	12.500			Pothole 300 x 300 x 100mm deep at both approaches.(photo)
Approach Bump		4	4	
Guardrail (Y/N)	Yes			Covered with snow. No thrie beam transition.
Guardrail		N	4	
Length (m)	99.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		5	5	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 13.7-19.2-16.8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	20	0	0	0	
Now	20.0				
Wearing Surface			7	7	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Estimated due to traffic volume.
Temperature (deg. C)		-20			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
80		East abutment			
75		Pier 2 - East			
75		Pier 1 - West			
80		West abutment			
Deck Drainage			6	6	No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			N	N	(Plough scrapes. Scaling top of concrete parapet. Large spall @ SW corner (300 x 250mm) with piece of wood from original const. embeded.)(photo) Snow covered.-Jun,2009
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		3			
Bridge Rail			7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			4	4	Hairline to narrow longitudinal cracks along c/l of girders: G2G3, G7-G12 S1 & S2, G4-G13 S3. Underside of centre span stained from train exhaust. Shallow cover exposing rebar-50% S2 girders.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 45)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 13.7-19.2-16.8, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	-20			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		N	N	See girder ratings.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		N	N	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		4	4	Peeling.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		4	4	Vertical crack down S face at P1 (1/3 depth)
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		X	X	
Type	None			
Slope Protection (Type : CONCRETE; CONCRETE)		N	N	Buckling at toe of headslopes. Toe of E. headslope badly broken up and heaving.(photo)-23-Jun-2009 Snow covered.
Bank Stability		6	6	
Drainage		7	7	
Grade Separation General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Repair spall on top of 3 South barrier @ W. end, if not done.					
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	Fix pothole @ approaches.					
OTHER ACTION	2013	Repair concrete slope protection @ next major rehab., if not done.					
OTHER ACTION	2013	Replace 3 posts & 3 rail sections @ SE.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	53.7/53.7	Est. Repl. Yr	2035	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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	10-Apr-2016		Previous Inspection Date	07-Mar-2011			
Inspection Cycle (Default) (months)	39						
Comment							