

Bridge Inspection												
Bridge File Number	76805 E-1 Bridge						Form Type	PSR				
Year Built/Year Supstr	1971/1971						Lot No.					
Bridge or Town Name	EDMONTON						Inspector Name	Tom Hubbard				
Located Over	CNR						Inspector Class	BR CLS A				
Located On	15:03 R1 2.922						Assistant Name	Andre Gosselin				
Water Body Cl./Year							Assistant Class	BR CLS A				
Navigabil. Cl./Year							Inspection Date	11-Jul-2011				
Legal Land Location	NW SEC 7 TWP 54 RGE 23 W4M						Data Entry By	Tom Hubbard				
Longitude, Latitude	-113:22:53, 53:39:09						Data Entry Date	19-Jan-2012				
Road Authority	EDMONTON						Reviewer Name					
Contract Main. Area	UNDEFINED CMA						Review Date					
Clear Roadway/Skew	12.8 / -32 deg. (LHF)						Dept. Reviewer Name	Shiraz Kanji				
AADT/Year							Dept. Review Date	19-Jan-2012				
Road Classification							Follow-Up By					
Detour Length (km)	3											
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)			No									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks												
Required Load Posting (t)			Single			Semi			Truck Train			
Posted Loading (t)			Single			Semi			Truck Train			
Posted:	Lane	WB	At Junction (Y/N)	No		In Advance (Y/N)	No		At Bridge (Y/N)	No		
Posted:	Lane	EB	At Junction (Y/N)	No		In Advance (Y/N)	No		At Bridge (Y/N)	No		
Remarks			Previous posting 24 40 54 removed 2011.									
Hazard Marker At Bridge (Y/N)			No									
Remarks												
Other Sign Types												
Utilities (Located at)												
Utility Attachments												
Telephone							Gas					
Power							Municipal					
Others							Problem (Y/N)	No				
Remarks												
Approach Road												
			Last	Now	Explanation of Condition							
Horizontal Alignment			6	6	Few bolts missing.							
Vertical Alignment			6	6								
Roadway Width (m)			12.900									
Approach Bump			7	7								
Guardrail (Y/N)			Yes									
Guardrail			7	6								
Length (m)			50.000									
Current Standard (Y/N)			No									
Termination Type			TURN DOWN END									
Drainage			4	6								
Approach Road General Rating			6	6								

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 16.8-16.8-16.8, A-Ident Number:)						
Special Features						
Special Feature					X	
(Type :)						
Special Feature					X	
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface				7	6	Some small potholes in #1 lane.
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top				N	N	See wearing surface.
Deck Rideability				6	6	Slight elevation changes from header to asphalt.
Deck Joints				7	7	No leaks - 2011 wash report.
Temperature (deg. C)		16				Joint Type: Open Gland
(Expansion Type :)						Measurements taken in gutters 39 - SW Abutment 35 - S. Pier #1 42 - S. Pier #1 38 - SE Abutment
(Fixed Type : ASPHALTIC FIBRE BOARD)						
Gap Size (mm)		Gap Location				
36		NW Abutment				
31		N. Pier #1				
38		N. Pier #2				
34		NE Abutment				
Deck Drainage				4	4	No deck drains.
Drains Clogged (Y/N)		No				Multiple ponding locations in both shoulders.
Curbs/Median				4	4	Multiple delaminations have appeared on face of both curbs.
(Curb Type : Standard)						
Scaling (Percent Area)		7				
Bridge Rail				7	7	Brown paint is peeling off rail, galvanizing is OK.
(Type : BRIDGE TUBE)						
Bridge Rail Posts				7	7	
(Type :)						
Bridge Rail/Posts Coating				3	3	
(Type :)						
Sidewalk				X	X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Girders				5	5	Repair on NE corner is delaminating, efflorescence/staining between girders. Longitudinal crack at SE end (fascia) c/w efflor. and staining. Spalling at S/E exterior girder.
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
(Number Of Girders : 45)						
Diaphragms/Cross Frame				X	X	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 16.8-16.8-16.8, A-Ident Number:)				
Bearings		7	7	Neoprene pads.
Temperature (deg. C)	16			
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		N	N	See girder rating.
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		3	3	Breastwall coating is deteriorating (black tar).
Abutment Stability		7	7	
Scour/Erosion		6	6	Minor scour at N/E edge from trough.
Piers/Bents				
(Type : PIER-COLUMN)				East and West caps have cracks above each. S/E pier cap has hori. cracks and stains that have worsened since 2006 inspection.
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Some touch-up to steel columns.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	Railway alignment.

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		X	X	
Type				
Slope Protection		4	5	Base of E. headslope is breaking up and buckling.
(Type :)				
Bank Stability		5	5	Previous stability problems on E. bank.
Drainage		6	6	
Grade Separation General Rating		4	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	Repair curb face delaminations at N. and S. curbs.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING	2012	Annual maintenance.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair base of headslope.					
OTHER ACTION	2012	Crackseal E. articulation crack in approach; patch asphalt delam areas.					
OTHER ACTION	2012	Repair S/E ext. girder crack and N/E ext. crack - old patch failing.					
OTHER ACTION	2012	Fill gap at interface between columns and headslope concrete.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	66.4/65.7	Est. Repl. Yr	2018	Maint. Req'd. (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	Tom Hubbard	Previous Assistant's Name	
Next Inspection Date	11-Apr-2013	Previous Inspection Date	25-Jun-2008
Inspection Cycle (Default) (months)	21		
Comment			