

Bridge Inspection										
Bridge File Number	85023 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	2007/2007					Lot No.	3			
Bridge or Town Name	PROVINCIAL HIGHWAY 216 (ANTHONY HENDAY DRIVE) OVER 91 STREET					Inspector Name	Shane Hall			
						Inspector Class	BR CLS A			
Located Over	216:04 R1 22.126;216:04 L1 22.171;RAMP 3169-1 B;RAMP 3169-1 H					Assistant Name				
						Assistant Class				
Located On	LOCAL ROAD					Inspection Date	15-Feb-2013			
Water Body Cl./Year						Data Entry By	Theresa Lacusta			
Navigabil. Cl./Year						Data Entry Date	11-Mar-2013			
Legal Land Location	NW SEC 27 TWP 51 RGE 24 W4M					Reviewer Name	Eric Carcoux			
Longitude, Latitude	-113:28:00, 53:26:13					Review Date	10-Mar-2013			
Road Authority	AREL					Dept. Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE					Dept. Review Date	22-Mar-2013			
Clear Roadway/Skew	24 /					Follow-Up By				
AADT/Year										
Road Classification	UAU-412.2-80									
Detour Length (km)	3									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	CL800					----> Primary Span				

Posting Information															
Required Vert. Clearance Posting (m)															
Posted Vertical Clearance (Y/N)						Yes									
Posted:	Lane	EB	On Bridge (m)	6.0	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	6.0	In Advance (Y/N)	Yes			
Remarks		6.1 on EB exit ramp.													
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	At Bridge (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	At Bridge (Y/N)	No	At Bridge (Y/N)	No			
Remarks		Not required.													
Hazard Marker At Bridge (Y/N)			No												
Remarks															
Other Sign Types			Lane ends.												

Utilities (Located at)									
Utility Attachments									
Telephone						Gas			
Power	Street lighting, major power lines East & West.					Municipal			
Others						Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approach slab settled 25mm @ SE corner.
Vertical Alignment		7	7	
Roadway Width (m)		16.800		
Approach Bump		5	5	
Guardrail (Y/N)		Yes		1 split block @ NE corner.-photo
Guardrail		7	4	
Length (m)		99.000		
Current Standard (Y/N)		Yes		
Termination Type		Terminal		Water ponding on sidewalk at S end at S. end of approach slab.-photo
Drainage		7	4	

Approach Road					
			Last	Now	Explanation of Condition
Approach Road General Rating			7	7	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 59.411-55.61, A-Ident Number: A1758-02)					
Special Features					
Special Feature				8	At top pf abutment all 4 corners. chain link fence
(Type :)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
		N (%)	1 (%)	2 (%)	3 (%)
Last					
Now					
Wearing Surface			7	7	
(Material Type : ACP)					
(Thickness(mm) : 80)					
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			4	4	Leakage suspected at SW corner. Erosion @ SW corner of bridge, below joint. 1 missing plow guard @ N abut in NBL.-photo 1 missing plow guard @ S abut. in SBL.-photo
Temperature (deg. C)		-1			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
85		S. abutment			
85		N. abutment			
Deck Drainage			4	4	Suspected problem at gland, SE corner. Water spilling onto wingwall.-photo
Drains Clogged (Y/N)		No			
Curbs/Median			8	8	Singleslope barrier, standard
(Curb Type : NEW JERSEY;Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Sidewalk railing.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			8	2	Water ponding at South end forming ice sheet.-photo
Girder/Beam					
Cover Plate			X	X	
Flange			8	8	
Web			8	8	
Stiffeners			8	8	
Splice			8	8	
Weld			8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 59.411-55.61, A-Ident Number: A1758-02)				
Diaphragms/Cross Frame		8	8	
Paint Condition		8	8	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	Viewed with binoculars.
Temperature (deg. C)	-1			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	5	Med. cracks with efflorescence and water staining between G4 and G5 at S abutment over pier and at North abut.-photo
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		8	2	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	One small portion visible at corners. Rated whats visible.
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		4	4	Cracking/staining at SE corner, water running down outside of wingwall & forming scour hole 05.m x 0.3 x 0.2 - photo. Narrow horiz. and vertical cracks at all 4 wingwalls. Map cracking at SE wingwall.
Piles		N	N	
Paint/Coating		8	4	Some peeling throughout. Large patches peeling at NE wingwall exposing red graffiti.-photo
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 8)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	8	Cream
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	Clear zones > 9.0m.
Traffic Safety Features		7	7	
Type	Lighting			
Slope Protection		7	7	
(Type : GRAVEL; GRAVEL)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

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							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace 2 missing plow guards.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Investigate source of leakage @ SE wingwall and repair.					
OTHER ACTION	2013	Repair sidewalk settlement or improve drainage.					
OTHER ACTION	2013	Replace 1 split GR post.					
OTHER ACTION	2013	Repaint/seal NW wingwall - Consider sandblast first to remove graffiti below otherwise this will be an ongoing maintenance issue.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/55.6	Sufficiency Rating (Last/Now) (%)	76.0/62.0	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor approach slab settlement @ SE.		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	Eric Carcoux		Previous Assistant's Name				

Next Inspection Date	15-Nov-2014	Previous Inspection Date	25-Apr-2011
Inspection Cycle (Default) (months)	21		
Comment			