

Bridge Inspection										
Bridge File Number	85071 E1-3 Bridge					Form Type	SG			
Year Built/Year Supstr	2007/2007					Lot No.	3			
Bridge or Town Name	Bretona Interchange					Inspector Name	Wade Nanninga			
Located Over	14:04 R1 1.805					Inspector Class	BR CLS A			
Located On	14:04 R2 1.097					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	27-Feb-2013			
Legal Land Location	NW SEC 33 TWP 51 RGE 23 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:20:07, 53:26:56					Data Entry Date	19-Mar-2013			
Road Authority	AREL					Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE					Review Date	14-Mar-2013			
Clear Roadway/Skew	12.9 /					Dept. Reviewer Name	Eric Carcoux			
AADT/Year	12,940 / 2011 (A)					Dept. Review Date	22-Mar-2013			
Road Classification	RFD-412.4-110					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:	CL800									---> Primary Span

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)					Yes					
Posted:	Lane	EB	On Bridge (m)	5.9	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	In Advance (Y/N)
Remarks	Posted on bridge to North.									
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)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks	Not required.									
Hazard Marker At Bridge (Y/N)					Yes					
Remarks					Mounted @ end of approach railing on crash terminal end.					
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone						Gas				
Power	Street lighting.					Municipal				
Others	CN cable along tracks.					Problem (Y/N)	No			
Remarks										

Approach Road									
					Last	Now	Explanation of Condition		
Horizontal Alignment					7	7	Curve to East & West.		
Vertical Alignment					7	7	Typical grade separation crest curve.		
Roadway Width (m)					14.200		Approaches settled, East patched.		
Approach Bump					7	7			
Guardrail (Y/N)					Yes				
Guardrail					8	8			
Length (m)					99.000				
Current Standard (Y/N)					Yes				
Termination Type					Fleat				
Drainage					3	N	SE drain trough, scour stop loose, gully underneath.(photo) Eroison rivulets @ SE.(photo)-25-Apr-2011 Snow covered		
Approach Road General Rating					7	7			

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : WG, 3 Spans, Lengths(m): 30.4-40.6-50.484, A-Ident Number: A1765-02)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last							
Now							
Wearing Surface			6	6	Wide random crack -sealed.		
(Material Type : ACP)							
(Thickness(mm) : 80)							
Deck Top			N	N			
Deck Rideability			8	8			
Deck Joints			N	4	Tear in gland, West joint - photo.-15-Jul-2009 Full of sand Staining @ NW abutment sent from possible leaking joint.		
Temperature (deg. C)		0					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
65		West abutment					
100		East abutment					
Deck Drainage			8	8	No drains.		
Drains Clogged (Y/N)		No					
Curbs/Median			8	6	Cracking with efflorescence from construction joints.		
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)							
Scaling (Percent Area)		0					
Bridge Rail			X	X			
(Type :)							
Bridge Rail Posts			X	X			
(Type :)							
Bridge Rail/Posts Coating			X	X			
(Type :)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			X	X			
Flange			8	8			
Web			8	8			
Stiffeners			8	8			
Splice			8	8			
Weld			8	8			
Diaphragms/Cross Frame			8	8			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 30.4-40.6-50.484, A-Ident Number: A1765-02)				
Paint Condition		8	8	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	Viewed with binoculars.
Temperature (deg. C)	0			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	6	Cracks with stains extending from curbs.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		8	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	6	Staining and narrow cracking @ NW.
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	7	
Piles		N	N	
Paint/Coating		8	7	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				Narrow map cracking
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		8	7	
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	
Debris (Y/N)	No			
Substructure General Rating		8	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Curve to South.
Traffic Safety Features		8	8	Clear zone of > 9m to columns.
Type	Lighting			
Slope Protection		8	8	
(Type : GRAVEL; GRAVEL)				
Bank Stability		8	8	
Drainage		8	8	
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	Repair torn gland. - flood joints to confirm no leakage.					
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	Repair scour @ SE, if not done.					
OTHER ACTION	2013	Re-establish scour stop at SE, if not done.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/66.7	Sufficiency Rating (Last/Now) (%)	67.2/57.5	Est. Repl. Yr	2080	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	27-Nov-2014		Previous Inspection Date	25-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							