

Bridge Inspection										
Bridge File Number	85019 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	2006/2006					Lot No.	3			
Bridge or Town Name	ANTHONY HENDAY DRIVE					Inspector Name	Wade Nanninga			
Located Over	216:06 R1 1.956;216:06 L1 1.959					Inspector Class	BR CLS A			
Located On	111 STREET NORTHWEST:02 R1 0.550;111 STREET NORTHWEST:02 L1 0.542					Assistant Name				
						Assistant Class				
						Inspection Date	26-Feb-2013			
Water Body Cl./Year						Data Entry By	Theresa Lacusta			
Navigabil. Cl./Year						Data Entry Date	13-Mar-2013			
Legal Land Location	NE SEC 30 TWP 51 RGE 24 W4M					Reviewer Name	Eric Carcoux			
Longitude, Latitude	-113:31:10, 53:26:03					Review Date	11-Mar-2013			
Road Authority	Alberta Transportation (AIT)					Dept. Reviewer Name	Brent Herrick			
Contract Main. Area	ANTHONY HENDAY DRIVE					Dept. Review Date	20-Mar-2013			
Clear Roadway/Skew	21.3 /					Follow-Up By				
AADT/Year	6,000 / 2013 (E)									
Road Classification	UAU-209.0-070									
Detour Length (km)	10									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:										----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 216 L1 5.7m, 216 R1 5.6m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	5.8	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.8	In Advance (Y/N)	Yes
Remarks												
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				
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			Numerous on/off ramp directional signs.									

Utilities (Located at)				
Utility Attachments				
Telephone			Gas	
Power	Street lighting.		Municipal	Municipal utilities throughout.
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Superelevated. Traffic lights at North end.
Vertical Alignment		9	9	
Roadway Width (m)	21.300			Dip South end.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Concrete parapets. 300 x 50mm spall SW parapet. Likely snow plow damage.
Guardrail		7	7	
Length (m)	21.000			
Current Standard (Y/N)	Yes			
Termination Type	Tapered			
Drainage		9	8	
Approach Road General Rating		8	8	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : NU, 2 Spans, Lengths(m): 55-51, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now						
Wearing Surface			4	6	Random cracking.	
(Material Type : ACP)						
(Thickness(mm) : 80)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			3	4	Missing 2 bolts NBL South abutment - photo. Paving lip has a 500mm long spall at joint NBL. Missing 2 bolts and 2 snow plow guards North abutment.	
Temperature (deg. C)		9				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
60		South abutment				
65		North abutment				
Deck Drainage			3	6	(Minor ponding A2 East gutter. 27/April/2006) No drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Pigmented sealer is starting to flake off on outsides of curbs. Vertical medium shrinkage cracks - photo. Approx 300mm o/c (average).	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			9	9	Sidewalk railing, insufficient thread on 5%.	
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts			4	4	Galvanizing on sidewalk rail is flaking at a few locations.	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			5	5		
(Type : GALVANIZED)						
Sidewalk			6	N	Wide transverse crack in approach slab on North sidewalk.-29-Apr-2011 Snow covered	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 2 Spans, Lengths(m): 55-51, A-Ident Number:)				
Girders		4	4	Continuous over pier. Most girders have horizontal hairline cracking at girder ends. Medium horizontal cracks at end diaphragms. No propagation of cracks since last inspection.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 10)				
Diaphragms/Cross Frame		9	9	Steel diaphragms. Galvanized.
Bearings		9	9	Difficult to view bearings at pier due to height.
Temperature (deg. C)	0			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		9	9	
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		9	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	Narrow map cracking & efflorescence SE & NW.
Wingwalls		7	6	
Piles		N	N	
Paint/Coating		4	4	100 x 100mm sections of paint are flaking off NE wingwall.
Abutment Stability		9	9	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		9	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		9	8	Cream.
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		9	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		9	9	Guardrail on median.
Type	Lighting			
Slope Protection		8	8	Separated from South backwall 80mm, North 60mm.
(Type : CONCRETE; CONCRETE)				
Bank Stability		9	9	
Drainage		9	9	
Grade Separation General Rating		9	8	

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							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace missing bolts, tighten plates, replace 2 snow plow guards.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/66.7	Sufficiency Rating (Last/Now) (%)	71.2/59.7	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking		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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	26-Nov-2014		Previous Inspection Date	29-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							