

Bridge Inspection									
Bridge File Number	85008 N-1 Bridge				Form Type	PSR			
Year Built/Year Supstr	2005/2005				Lot No.	3			
Bridge or Town Name	ANTHONY HENDAY DRIVE				Inspector Name	Wade Nanninga			
Located Over	WHITEMUD DRIVE:02 R1 0.635;WHITEMUD DRIVE:02 L1 0.637				Inspector Class	BR CLS A			
Located On	216:06 R1 17.642				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	25-Jan-2013			
Legal Land Location	SW SEC 29 TWP 52 RGE 25 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:39:33, 53:30:44				Data Entry Date	06-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE				Review Date	25-Feb-2013			
Clear Roadway/Skew	16.6 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	40,340 / 2011 (A)				Dept. Review Date	13-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:	CS750						----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	WB	On Bridge (m)	5.6	In Advance (Y/N)	Yes	Lane	EB	On Bridge (m)	5.6	In Advance (Y/N)	Yes
Remarks		Eastbound signs on other bridge. Sign A1577 blocks clearance sign - photo.										
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)		In Advance (Y/N)		At Bridge (Y/N)					
Remarks		Posting not required.										
Hazard Marker At Bridge (Y/N)		No										
Remarks		Not required.										
Other Sign Types		Exit Speed 40										

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	8 wires 50m East.				Municipal				
Others	Street lighting in median & East side.				Problem (Y/N)	No			
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Wide crack at approach slabs, pothole forming @ N abut.-photo
Vertical Alignment		9	9	
Roadway Width (m)	16.600			
Approach Bump		7	6	Bulb ends on North.
Guardrail (Y/N)		Yes		
Guardrail		7	7	
Length (m)	95.000			
Current Standard (Y/N)		Yes		
Termination Type		Turn Down		

Approach Road					
		Last	Now	Explanation of Condition	
Drainage		4	N	Erosion gullies between bridges on both headslopes, 0.7m deep on North side - photo. Erosion gully along slope protection @ SE to 0.5m deep - photo. Erosion gully 0.5m deep @ NE corner - photo.- May,2011 Water draining between ACP and drain trough @ SE corner-photo-May 2011	
Approach Road General Rating		9	9		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : NU, 2 Spans, Lengths(m): 49-46, 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	10.0	0.0	0.0	0.0	
Wearing Surface		7	7	Waterproofing membrane installed on deck. Cracking in ACP between all three lanes for full length @ const. (ACP) joint.	
(Material Type : MIX TYPE 2 ACP)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)	No				
Deck Top		X	N		
Deck Rideability		9	8		
Deck Joints		8	4	Snow plow guard missing @ abut.-photo(4 total).	
Temperature (deg. C)	0				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)	Gap Location				
60	North abutment				
70	South abutment				
Deck Drainage		7	7	No deck drains.	
Drains Clogged (Y/N)	No				
Curbs/Median		6	6	Horizontal crack @ outside face @ each barrier joint, efflorescence.	
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)					
Scaling (Percent Area)	1				
Bridge Rail		X	X		
(Type :)					
Bridge Rail Posts		X	X		
(Type :)					
Bridge Rail/Posts Coating		X	X		
(Type :)					
Sidewalk		X	X		

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : NU, 2 Spans, Lengths(m): 49-46, A-Ident Number:)						
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Girders				4	4	Poured connection over pier marked from Level 2 insp. Diagonal narrow crack on exterior girders over piers from bottom flange into web. Hairline cracks in AZ (girder ends) in most girders.
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 10)						
Diaphragms/Cross Frame				9	9	Galvanized steel.
Bearings				8	8	Fixed bearing inspected with binoculars from headslopes.
Temperature (deg. C)		6				
(Expansion Type : POT BEARING)						
(Fixed Type : REINFORCED PAD BEARING)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside				7	6	Hairline cracks with efflorescence along North abutment, concentrated where plastic chairs are visible.
Stains (Percent Area)		1				
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	9	
(Type : CONCRETE)						
Backwalls/Breastwalls				9	9	
Wingwalls				9	9	
Piles				N	N	
Paint/Coating				5	5	Paint peeling @ SW wingwall.
Abutment Stability				9	9	
Scour/Erosion				4	N	Erosion along headslope @ SE corner - photo. Erosion below concrete drain trough @ SE corner.-photo-May, 2011
Piers/Bents						
(Type : PIER-SOLID)						
Bearing Seats/Caps				9	8	
(Type : CONCRETE)						
(Total Number of Bearing Piles : 0)						
Pier Shaft/Piles				9	8	
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				8	8	Beige.
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		9	9	
Scour		X	X	
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		3	7	
Type	Concrete barrier/guardrail			
Slope Protection		6	6	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		4	N	Erosion gully along SE headslope - photo.-May, 2011
Grade Separation General Rating		3	7	

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 snow plow guards.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Seal crack @ approaches, patch pothole.					
OTHER ACTION	2013	Move clearance sign to visible location.					
OTHER ACTION	2013	Repair erosion gullies & approach drainage, if not done.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/66.7	Sufficiency Rating (Last/Now) (%)	54.0/57.9	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	25-Oct-2014		Previous Inspection Date	04-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							