

Bridge Inspection									
Bridge File Number	85012 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	WEDGEWOOD CREEK, 6.99, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	216:06 R1 12.699				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Jan-2013			
Legal Land Location	SE SEC 8 TWP 52 RGE 25 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:38:46, 53:28:14				Data Entry Date	08-Feb-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE				Review Date	27-Jan-2013			
Clear Roadway/Skew	12.9 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	41,140 / 2011 (A)				Dept. Review Date	14-Feb-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:							----> Primary Span		
Posting Information									
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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Information, directional.								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	240 KV 0.4 lines 250m north. Lighting.				Municipal	Street lights attached to curb.			
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8					
Vertical Alignment			9	9					
Roadway Width (m)	13.600								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			5	7					
Length (m)	77.000								
Current Standard (Y/N)	Yes								
Termination Type	Turn down								
Drainage			3	N	Hole in drain trough @ NE corner to accept approach rail is open (photo). Water is draining through hole creating 2m w 1m w 1m deep trough hole at SE corner (photo).-May,2011				
<b>Approach Road General Rating</b>			<b>8</b>	<b>8</b>					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : <b>NU, 3 Spans, Lengths(m): 41.5-52-41.5, A-Ident Number: )</b>							
<b>Special Features</b>							
Special Feature			X				
(Type : )							
Special Feature			X				
(Type : )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
<b>Last</b>	0	0	0	0			
<b>Now</b>	10.0	0.0	0.0	0.0			
Wearing Surface			6	5	Random wide cracking in asphalt wearing surface.		
(Material Type : <b>ACP</b> )							
(Thickness(mm) : <b>80</b> )							
Lateral Connection Problem (Y/N)		No					
Deck Top			N	N			
Deck Rideability			8	8			
Deck Joints			8	4	Missing snow plow deflector at both abutments. (3)		
Temperature (deg. C)		-10					
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )							
(Fixed Type : )							
Gap Size (mm)		Gap Location					
95		Abutment 1 - South					
110		Abutment 2 - North					
Deck Drainage			3	7	No deck drains. Hole in splash pad @ NE corner to accept approach rail post is open (photo). Water draining into hole below approach slab creating large (2m x 1m x 1m deep) scour hole - photo.- May,2011		
Drains Clogged (Y/N)		No					
Curbs/Median			7	7	Concrete barrier. Hairline vertical cracking on approach sections.		
(Curb Type : <b>SINGLE SLOPE CONCRETE BARRIER</b> )							
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 Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>							
Girders			4	4	Hairline cracks in anchorage zone of girder webs, typical.		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0			Continuous.		
(Number Of Girders : <b>4</b> )							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>NU, 3 Spans, Lengths(m): 41.5-52-41.5, A-Ident Number: )</b>				
Diaphragms/Cross Frame		8	8	Concrete diaphragms at abutments & piers. Steel intermediate diaphragms. Galvanized.
Bearings		8	8	Abutments only.
Temperature (deg. C)	-10			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Narrow random transverse cracks with efflorescence.
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		5	5	Med cracks base of backwall on west side @ A1 with efflorescence staining.
Wingwalls		5	5	Medium cracks in SW curtain wall.
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		9	9	
Scour/Erosion		4	4	Erosion along SE curtain wall (photo).-May, 2011 Erosion gully @ North headslope toe.
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				1500mm dia. columns below each girder line. Concrete base at bottom of pier columns.
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>4:4</b> )				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		9	9	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		9	9	
Scour		9	9	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Meanders through bridge opening.
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	No			
Slope Protection		8	4	Rock on upper slopes. Gulley 1mx2mx8m at toe of North pier.
(Type : <b>RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>4</b>	

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 plow deflectors.(3)					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	At toe of N headslope.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fill hole (with grout) in splash pad @ NE corner, if not done.					
OTHER ACTION	2013	Repair erosion @ SE corner, if not done.					
OTHER ACTION	2013	Consider replacing glands while working on 85012-2.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.8/56.5</b>	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder and backwall 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	26-Oct-2014		Previous Inspection Date	04-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							