

Bridge Inspection											
Bridge File Number	85008 S-2 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 0.663;WHITEMUD DRIVE:02 L1 0.665					Inspector Class	BR CLS A				
Located On	216:06 L1 17.695					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	-113:39:34, 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	EB	On Bridge (m)	5.6	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.6	In Advance (Y/N)	Yes
Remarks		Signs A1576 blocks clearance sign - photo. WB signs on other bridge.										
Required Load Posting (t)			Single		Semi			Truck Train				
Posted Loading (t)			Single		Semi			Truck Train				
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	NB	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												

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	Major power lines to East.		Municipal
Others	Street lighting on East side of bridge & along road below.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	
Vertical Alignment		9	9	
Roadway Width (m)		16.600		Wide crack @ approach slab.-photo
Approach Bump		5	5	
Guardrail (Y/N)		Yes		Bulb end on South end.
Guardrail		4	7	
Length (m)		90.000		
Current Standard (Y/N)		Yes		
Termination Type		Turn Down		
Drainage		4	N	Erosion gully between both bridges @ North & South side - photo. Down drain trough spall @ SW - photo.-May,2011

Approach Road						
			Last	Now	Explanation of Condition	
<b>Approach Road General Rating</b>			9	9		
Superstructure						
Bridge Component			Last	Now	Explanation of Condition	
(Primary Span : <b>NU, 2 Spans, Lengths(m): 49-46, A-Ident Number: )</b>						
Special Features						
Special Feature				X		
(Type : )						
Special Feature				X		
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
		N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>						
<b>Now</b>		10.0				
Wearing Surface			4	4	Waterproofing membrane installed on deck. 300mmx100mmx20mm deep pothole in W. lane near N. end.-photo Filled	
(Material Type : <b>MIX TYPE 2 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 guard @ both joints.(4)	
Temperature (deg. C)		0				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
70		North abutment				
65		South abutment				
Deck Drainage			5	4	Slope down to South. No deck drains. Water leaking through curb onto SW wingwall.-photo	
Drains Clogged (Y/N)		No				
Curbs/Median			4	N	Horizontal crack @ outside face barrier joints with efflorescence is typical. Spall/crack @ outside face @ SE corner improperly repaired, filled with soft mud - photo.-May,2011	
(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>						
<b>Now</b>						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>NU, 2 Spans, Lengths(m): 49-46, A-Ident Number:</b> )				
Girders		4	4	Poured connection over piers. Hairline cracks in AZ most girders, typical - marked from Level 2 insp. Exterior girders narrow cracking over piers from bottom flange.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : <b>10</b> )				
Diaphragms/Cross Frame		9	9	
Bearings		9	9	Pier bearings insp. with binnoculars from headslopes.
Temperature (deg. C)	8			
(Expansion Type : <b>POT BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	3 hairline cracks with stain on North end.
Stains (Percent Area)	1			
<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		9	9	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		9	9	
Wingwalls		9	8	
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		9	9	
Scour/Erosion		4	N	Erosion gully along NW curtain wall - photo.-May, 2011
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		9	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	8	Beige.
(Colour Description : )				
(Colour Code : )				
Pier Stability		9	9	
Scour		X	X	
Debris (Y/N)	No			

<b>Substructure</b>				
<b>Bridge Component</b>		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Substructure General Rating</b>		<b>9</b>	<b>8</b>	
<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Grade Separation</b>				
Road Alignment		9	9	
Traffic Safety Features		3	6	Wide vertical cracks @ 1.5 - 2m spacing @ lighting.
Type	Concrete Barrier/Guardrail			
Slope Protection		5	6	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		5	6	
<b>Grade Separation General Rating</b>		<b>3</b>	<b>6</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	2013	Pothole at N paving lip.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace missing snow plow guards(4).					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Move clearance sign to visible spot.					
OTHER ACTION	2013	Repair erosion gullies, if not done.					
OTHER ACTION	2013	Seal approach slab crack.					
OTHER ACTION	2013	Repair spall @ outside of East curb @ construction joint, if not done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.0/56.3</b>	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	25-Oct-2014		Previous Inspection Date	04-May-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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