

Bridge Inspection										
Bridge File Number	85048 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	1999/1999					Lot No.	3			
Bridge or Town Name	215 ST/YHT					Inspector Name	Wade Nanninga			
Located Over	16:16 R1 4.919;16:16 L1 4.912					Inspector Class	BR CLS A			
Located On	WINTERBURN ROAD:02 L1 0.228;WINTERBURN ROAD:02 R1 0.227					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	24-Jan-2013			
Legal Land Location	NW SEC 7 TWP 53 RGE 25 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:41:20, 53:34:12					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	20.7 / 9 deg. (RHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,000 / 2013 (E)					Dept. Review Date	14-Feb-2013			
Road Classification	RLU-208-110					Follow-Up By				
Detour Length (km)										
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)	5.4	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	No
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	At Bridge (Y/N)	No		
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No		
Remarks												
Not required.												
Hazard Marker At Bridge (Y/N)					No							
Remarks												
Not required.												
Other Sign Types					Left & right turn signs.							

Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power	Overhead lights on bridge.					Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road												
				Last	Now	Explanation of Condition						
Horizontal Alignment				7	7	Crest curve. Typical grade separation.						
Vertical Alignment				7	7							
Roadway Width (m)				20.000		North/South approaches settled 20mm-bump.						
Approach Bump				7	4							
Guardrail (Y/N)				Yes								
Guardrail				8	8							
Length (m)				30.400								
Current Standard (Y/N)				Yes								
Termination Type				Turn down								
Drainage				4	N	Concrete drain troughs @ SE, SW, NE & NW have broken concrete edges - photo.-04-May-2011 Snow covered.						
<b>Approach Road General Rating</b>				<b>7</b>	<b>7</b>							

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 2 Spans, Lengths(m): 39-39, 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>					
<b>Now</b>	90.0				
Wearing Surface			7	7	Thickness varies. 50mm on West side, 100mm on East.-May,2011
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>100</b> )					
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			7	7	(2006 wash report: small cut in north seal, but minimal leakage. 05/Oct/2006) No signs of leakage at time of inspection.
Temperature (deg. C)		-13			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
80		South abutment - A1			
75		North abutment - A2			
Deck Drainage			8	8	S/E deck drain has caused minor erosion to bank.-May,2011
Drains Clogged (Y/N)		No			
Curbs/Median			4	N	Spalls @ SE curb face at joint cover plate - photo. Random medium cracks in median.-May,2011
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			8	8	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			8	8	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder/Beam</b>					
Cover Plate			X	X	
Flange			9	9	
Web			9	9	
Stiffeners			9	9	
Splice			9	9	
Weld			9	9	
Diaphragms/Cross Frame			9	9	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 2 Spans, Lengths(m): 39-39, A-Ident Number: )</b>				
Paint Condition		8	8	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	8	Pier bearings inspected with binnoculars from headslopes. No problems apparent.
Temperature (deg. C)	-13			
(Expansion Type : <b>POT BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Medium cracks with efflorescence, worst under West curb. Narrow cracks under driving lane.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		9	9	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				3 columns.
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Crazed cracking on surface. Minor flaking starting. Grey.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		7	N	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		9	9	
Traffic Safety Features		X	X	No rails, curbs or attenuation device.
Type				
Slope Protection		7	7	
(Type : <b>CONCRETE</b> )				
Bank Stability		8	8	
Drainage		4	N	Minor erosion at S/E slope from deck drain - photo. Stagnant water at base of slopes - photo.-May,2011
<b>Grade Separation General Rating</b>		<b>4</b>	<b>4</b>	GR carried fwd from May 2011

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							
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	Regrade ditch at base of slopes, if not done.					
OTHER ACTION	2013	Repair broken concrete at acc drain troughs, if not done.					
OTHER ACTION	2013	Repair erosion and install erosion protection @ SE corner, if not done.					
OTHER ACTION	2013	Repair small delam at S/E curb, if not done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.1/59.9</b>	Est. Repl. Yr	2065	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor settlement of approaches - patch as required.		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	24-Oct-2014	Previous Inspection Date	04-May-2011
Inspection Cycle (Default) (months)	21		
Comment			