

Bridge Inspection									
Bridge File Number	85021 E2-10 Bridge				Form Type	SG			
Year Built/Year Supstr	2006/2006				Lot No.	3			
Bridge or Town Name					Inspector Name	Wade Nanninga			
Located Over	RAMP 2423-2 E				Inspector Class	BR CLS A			
Located On	216:06 L1 0.229				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-Feb-2013			
Legal Land Location	NE SEC 29 TWP 51 RGE 24 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:29:38, 53:26:13				Data Entry Date	19-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE				Review Date	14-Mar-2013			
Clear Roadway/Skew	12.9 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	51,020 / 2011 (A)				Dept. Review Date	20-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:							----> Primary Span		

Posting Information									
Required Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)									
Posted:	Lane	SB	On Bridge (m)	In Advance (Y/N)	Yes	Lane	NB	On Bridge (m)	In Advance (Y/N)
Remarks	Posted on structure #12, 5.9m.								
Required Load Posting (t)		Single		Semi		Truck Train			
Posted Loading (t)		Single		Semi		Truck Train			
Posted:	Lane	WB	At Junction (Y/N)	In Advance (Y/N)		At Bridge (Y/N)			
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

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						
Vertical Alignment		9	9						
Roadway Width (m)	12.900								
Approach Bump		7	7						
Guardrail (Y/N)		Yes		Cast in place. Jersey barrier @ SW - damaged next to bridge.-photo					
Guardrail		8	4						
Length (m)	99.000								
Current Standard (Y/N)		Yes		Connected to adjacent structures @ West & SE.					
Termination Type		Fleat							
Drainage		7	7						
Approach Road General Rating		8	8						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 1 Spans, Lengths(m): 44, A-Ident Number: A1564-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			7	4	Unravelling along South lane - 50mmx10mmx10m. -photo
(Material Type : ACP)					
(Thickness(mm) : 80)					
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			X	X	
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			8	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	6	Typical shrinkage cracks @ 300mm.
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)					
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/Beam					
Cover Plate			X	X	
Flange			8	8	
Web			8	8	
Stiffeners			8	8	
Splice			X	X	
Weld			8	8	
Diaphragms/Cross Frame			8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 1 Spans, Lengths(m): 44, A-Ident Number: A1564-01)				
Paint Condition		8	8	Weathering steel with girders painted at ends.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		X	N	
Temperature (deg. C)	-5			
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)				
Functioning (Y/N)				
Deck Underside		8	7	Narrow cracks @ construction joints of curb.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		8	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	6	20mm bulge @ bottom flange- from construction.
Wingwalls		8	6	Medium cracking with efflorescence @ SE.-photo
Piles		N	N	
Paint/Coating		7	5	5% peeling worst @ SE.
Abutment Stability		8	8	
Scour/Erosion		8	7	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		X	8	
Type	Lights			
Slope Protection		7	6	Transverse cracks through down drain portion along edges.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		8	8	
Grade Separation General Rating		7	6	

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	2013	Seal/patch unravelling along S lane.					
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	Full depth concrete repairs - rail @ SW.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/83.3	Sufficiency Rating (Last/Now) (%)	69.6/64.7	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor bacwall bulging/cracking and paint @ SE.		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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	27-Nov-2014		Previous Inspection Date	25-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							