

Bridge Inspection							
Bridge File Number	75644 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1964/1964			Lot No.	2		
Bridge or Town Name	MORNINGSIDE			Inspector Name	Jason Saly		
Located Over	2:26 L1 32.036;2:26 R1 32.041			Inspector Class	BR CLS A		
Located On	RAMP 55-1 C			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	19-Mar-2013		
Legal Land Location	NE SEC 27 TWP 41 RGE 26 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:39:46, 52:33:33			Data Entry Date	01-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA19			Review Date	26-Mar-2013		
Clear Roadway/Skew	14 / -42 deg. (LHF)			Dept. Reviewer Name	Chris Black		
AADT/Year	400 / 2010 (E)			Dept. Review Date	09-Apr-2013		
Road Classification	RAU-213.4-120			Follow-Up By			
Detour Length (km)	2						
Allowable Load (t):	Single	CS1 43 GIRDER	Semi	CS2 54 GIRDER	Train	CS3 67 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20				----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 2 L1 5.2m, 2 R1 5.2m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	NB	On Bridge (m)	5.1	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes
Remarks												
Required Load Posting (t)		Single				Semi				Truck Train		
Posted Loading (t)		Single				Semi				Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks		Not required.										
Hazard Marker At Bridge (Y/N)		No										
Remarks		Not required.										
Other Sign Types		40 km/hr exit from Hwy 2 SB; Curve 65km/hr										

Utilities (Located at)			
Utility Attachments			
Telephone	Yes - no marker.		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve to South.
Vertical Alignment		5	5	On top of crest curve.
Roadway Width (m)	14.600			Potholes in road at W approach in WB lane.
Approach Bump		7	4	
Guardrail (Y/N)	Yes			
Guardrail		8	7	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	Turn Down			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 4 Spans, Lengths(m): 18.6-31.1-31.1-18.6, A-Ident Number: A0425-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.	
Last	0	0	0	0		
Now	25.0	0.0	0.0	0.0		
Wearing Surface			8	7	FRSF concrete o/l placed 2001; chip seal coat placed 2009. 2012 deck report indicates 2m2 debonded o/l.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			8	7		
Deck Joints			4	5	Missing 3 plow guards West joint in WBL. Jnts flooded in 2012; no leakage was observed.	
Temperature (deg. C)		2				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
86		W abut				
94		E abut				
Deck Drainage			8	5	No drains. Water accesses gap at E breastwall. According to 2012 deck Lvl 2 inspection, water leaks past rubber covered median gap onto abuts.	
Drains Clogged (Y/N)		No				
Curbs/Median			5	N	90.3mm wide transverse cracks in North curb @ 1-2m spacing. 15Sep2011) - Mostly snow covered.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			4	4	Minor damage to 2nd panel from SW corner. 1 vertical broken loose - photo.	
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts			5	5	Approx 6 A/B with insufficient thread on nuts.	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			8	8	Few high load scrapes over SB & NB. Slight sag in S2-3 bottom flange. S3G1 zipper splice repair to high load damage T-section. S3G1 high load damage bend approx. 20mm vertical.	
Flange			5	5		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8	32 girders.	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 4 Spans, Lengths(m): 18.6-31.1-31.1-18.6, A-Ident Number: A0425-01)				
Paint Condition		5	5	Minor corrosion and scrapes at flange edges. Girder ends at abuts have been touched-up.
(Colour Description : BROWN)				
(Colour Code : 504-106)				
Touchup Required (Y/N)	No			
Bearings		7	7	Galvanized plates & neoprene pad @ abutments. Piers 1 & 3 rocker. Pier 2 pinned.
Temperature (deg. C)	0			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Efflorescence @ cracks, minor, South side of SBL. Random patching, minor spalling along teh top flanges.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				4 legs each pier. 0.3-0.5mm wide horiz. cracks at N side centre pier & hairline vertical cracks in S leg of E pier.
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		6	4	4 broken timber guardrail posts W side of Hwy 2, NB.
Type	Guardrail			
Slope Protection		6	5	Top of North abutment slope pulled away upto 30mm allowing water into gap.
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		7	7	
Grade Separation General Rating		6	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install new slat.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace plow guards - 3.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS	2013	NBL T-section, straighten.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch pothole, W approach, WbL - 0.3m3.					
OTHER ACTION	2013	Replace 4 TT guardrail posts, W side of Hwy 2, NB.					
OTHER ACTION	2013	Seal gap btwn breastwall & slope.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	63.1/60.6	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Collision damage repaired Sep/Oct 1997. Location just W of Epier girder splice (N of interior girder) over NB lanes should be monitored during future inspections - Ed Kowal; OK at these inspections: 25Mar2005, 27Jan2007, 06Nov2009, 15Sep2011.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	19-Dec-2014		Previous Inspection Date	15-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							