

Bridge Inspection							
Bridge File Number	74232 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1966/1966			Lot No.	2		
Bridge or Town Name	GENESEEE			Inspector Name	Ed Kowal		
Located Over	NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	770:04 C1 24.185			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	15-Nov-2012		
Legal Land Location	NE SEC 6 TWP 51 RGE 2 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-114:16:55, 53:22:40			Data Entry Date	01-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA11			Review Date	26-Mar-2013		
Clear Roadway/Skew	8.5 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	940 / 2011 (A)			Dept. Review Date	02-Apr-2013		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	63						
Allowable Load (t):	Single	CS1 59 GIRDER	Semi	CS2 65 GIRDER	Train	CS3 69 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Remarks	Not required.						
Hazard Marker At Bridge (Y/N)	No						
Remarks							
Other Sign Types	Warning, Speed Limit 80 km/hr						

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Bottom of steep hill. Vertical curve to east. Horizontal and vertical curve to west.
Vertical Alignment		5	5	
Roadway Width (m)	9.500			ACP ravelling @ East approach slab.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Not attached to end post @ SW. SE, East approach - concrete curbs/gutters. 7 posts broken, NW. 6 blocks split on East guardrail. 2 guardrail sections damaged - East.
Guardrail		4	4	
Length (m)	72.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		6	6	
Approach Road General Rating		5	5	Vertical & horizontal alignment.

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 5 Spans, Lengths(m): 43.3-57.3-57.3-57.3-43.3, A-Ident Number: A0490-01)						
Special Features						
Special Feature			X	(Chainlink fence cut @ both abutments for access. 22/Feb/2006)		
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Gutters and curb top snow/ice covered.	
Last	5	0	0	0		
Now						
Wearing Surface			7	7	1/2 sq.m peeled next to East joint, 1 sq.m West joint. Thickness - 8mm	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			5	5	Fingers are up 8mm, typical to both joints. NE curb plate anchorage has fractured concrete. NE curb coverplate is spalled from curb. East abutment, fingers not centered, no distress. Fingers not level.	
Temperature (deg. C)		0				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
20		East abut (2)				
52		West abut (1)				
Deck Drainage			3	3	Troughs corroded, lead off pipes corroded. Drainage spalls onto abutment seat. E. Abutment backwall splash guard torn. Trough separated from backwall	
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Minor plow scrapes and superficial scaling. Curb patches, sound. Stains on curb overhangs.	
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail			4	4	One fastener missing @ SW exp. connection. Loose nuts, grout pad deterioration, 30% @ base plates. End block spalled @ NE. 2% insufficient anchor bolt threads.	
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts			3	3		
(Type : POST STEEL; POST STEEL)						
Bridge Rail/Posts Coating			6	6		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	5 places bullet holes drilled, bolts installed. Cif and fatigue crack repairs carried out in fall of 2012.	
Flange			6	7		
Web			7	7		
Stiffeners			3	7		
Splice			7	7		
Weld			3	7		
Diaphragms/Cross Frame			3	7	Cracks repaired in fall 2012.	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 5 Spans, Lengths(m): 43.3-57.3-57.3-57.3-43.3, A-Ident Number: A0490-01)				
Paint Condition		7	5	Repairs painterd with devoe epoxy system.
(Colour Description : YELLOW)				
(Colour Code : 505-101)				
Touchup Required (Y/N)	No			
Bearings		3	7	Cracks repaired fall of 2012.
Temperature (deg. C)	-14			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING;ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Minor Spall @ drain, West abutment. Wide cracks & stains East abutment around drains, A1 backwall splash guard is torn.
Wingwalls		6	6	(Wide crack in NW. 05-May-2009) Coating is blistering/peeling.
Piles		N	N	
Paint/Coating		5	5	A2 has onset of coating failure.
Abutment Stability		7	7	
Scour/Erosion		3	3	Scour E. headslope from abutment down - photos. Up to 2m deep.
Piers/Bents				
(Type : PIER-SOLID)				Pier 4 parging is spalling, minor.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	Rusty.
Paint/Coating		X	X	Paint is Consumed.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	Minor Sloughing
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		3	3	Erosion gullies East headslope.-photo East erosion gullies from drainage. West headslope has riprap.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace deteriorated grout, tighten nuts, replace missing bolt @ NW. Repair rail anchorage, NE and NW.					
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	2013	Wash abutment seats.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Repair abutment drainage/plumbing & erosion problem @ East abutment.					
PLACE ADDITIONAL RIP RAP	2013	East headslope.					
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Connect approach rail to bridge @ West.					
OTHER ACTION	2013	Install missing rail bolt SW end.					
OTHER ACTION	2013	Replace 7 posts, 6 blocks, 2 guardrail -East.					
OTHER ACTION	2013	Repair drain down pipes @ A1 & A2.					
OTHER ACTION	2013	Repair splash guard @ A1.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/66.7	Sufficiency Rating (Last/Now) (%)	51.4/57.4	Est. Repl. Yr	2040	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	Ed Kowal		Previous Assistant's Name				
Next Inspection Date	15-Feb-2016		Previous Inspection Date	11-Feb-2012			

Inspection Cycle (Default) (months)	39
Comment	