

Bridge Inspection							
Bridge File Number	13742 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1963/1963			Lot No.	2		
Bridge or Town Name	WASKATENAU			Inspector Name	Ed Kowal		
Located Over	NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	831:06 C1 18.745			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	05-Dec-2012		
Legal Land Location	NE SEC 32 TWP 58 RGE 19 W4M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-112:46:51, 54:03:29			Data Entry Date	01-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA07			Review Date	26-Mar-2013		
Clear Roadway/Skew	8.5 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	2,740 / 2011 (A)			Dept. Review Date	02-Apr-2013		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	42						
Allowable Load (t):	Single	CS1 60 GIRDER	Semi	CS2 67 GIRDER	Train	CS3 74 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 Req'd						
Hazard Marker At Bridge (Y/N)	No						
Remarks	2 marker boards are down.						
Other Sign Types	North Sask. River signs. 80km, Icy Bridge Deck.						

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	Curves at both ends for over 1 km. Significant grades in both directions. Road winds down into river valley. Posted for 80 km-hr
Vertical Alignment		6	6	
Roadway Width (m)	8.900			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	45.600			
Current Standard (Y/N)	Yes			
Termination Type	Turned Down			
Drainage		7	7	
Approach Road General Rating		5	5	Curbs below flexbeam for 10m at North end forces all flow to headslope drains. South approach drains to lateral drains. North approach drains off road.

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : WG, 5 Spans, Lengths(m): 49.7-62.5-62.5-62.5-49.7, A-Ident Number: A0412-01)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)	Covered/frozen along gutters		
Last	5	0	0	0			
Now							
Wearing Surface			4	4	ACP ravelling @ c/l and gutterline. Random transverse cracks, random pothole formation.		
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)							
(Thickness(mm) : 50)							
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			4	4	Fingers raised -- 5-6mm. @ both Abutments		
Temperature (deg. C)		-10					
(Expansion Type : FINGER PLATES)							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
57		South abutment					
46		North abutment					
Deck Drainage			4	4	All water flows to expansion assembly drain systems. Deck drains South to North. North headslope drain leaks with scour along underside. Weeping tubes broken off - staining underside.		
Drains Clogged (Y/N)		No					
Curbs/Median			6	5	Minor scaling/isolated spalls on overhang.		
(Curb Type : Standard)							
Scaling (Percent Area)		2					
Bridge Rail			5	2	Collision damage -NE corner. Missing bolts @ SE lattice, typical beam laps over lattice-adequate. Posts, collision damage at WE, Insufficient threads, loose nuts, & missing nuts. 25-30% of post grout pads are failing.		
(Type : GALVANIZED STEEL VERTICAL BAR)							
Bridge Rail Posts		3		3			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating		7		7			
(Type : GALVANIZED)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			X	X	Post corrosion dmage at bolted splices has been arrested. Cracks in stiff welded and gusset welds repaired.-2012		
Flange			5	6			
Web			6	6			
Stiffeners			3	6			
Splice			6	6			
Weld			3	7			
Diaphragms/Cross Frame			3	7	Cracks in bottom lat gusset and Dia stiffeners.		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 5 Spans, Lengths(m): 49.7-62.5-62.5-62.5-49.7, A-Ident Number: A0412-01)				
Paint Condition		9	9	TR 2100, Therma-Rust.
(Colour Description : BLUE)				Minor touchups for scafidid scrapes - to be completed June 2013.
(Colour Code : 502-105)				
Touchup Required (Y/N)	Yes			
Bearings		6	6	
Temperature (deg. C)	-10			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Transverse cracks est every 2-3m, with effloresence staining. No catwalk.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	2	Rail damage governs; hazardous conditons
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		5	5	type 3 sealer
Piles		N	N	
Paint/Coating		9	9	
Abutment Stability		6	6	
Scour/Erosion		4	4	Scour along and below North headslope drain.
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	Coating sonsumed, no corrosion.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	Stream Frozen.
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)		(21.3m as measured north of pier #2. Approx 20m @ P3.-23-May-06)CARRIED		
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	20.0	(Deck to water level.) 93/10/15 HWM (21.3m as measured north of pier #2. Approx 20m @ P3.-23-May-06)CARRIED		
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair collision damage, Replace missing nuts and tighten loose nuts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2015						
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							
OTHER ACTION	2013	Repair N headslope drain and erosion.					
OTHER ACTION	2015	Replace deteriorated grout pad @ bridge rail posts.					
OTHER ACTION	2013	Patch deck pot holes.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	55.2/52.2	Est. Repl. Yr	2043	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor crack @ P2 Brg stiff. G1 @ top flanges, web relief hole next Level 2 inspection. Spans 1 & 2-G1 & Spans 4-5-G2 have UIT on BF details @ bracing; next Level 2 inspection compare details with other flanges.		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	05-Mar-2016	Previous Inspection Date	18-Feb-2012
Inspection Cycle (Default) (months)	39		
Comment			