

Bridge Inspection							
Bridge File Number	73420 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1972/1972			Lot No.	2		
Bridge or Town Name	CAROLINE			Inspector Name	Owen Salava		
Located Over	TAY RIVER, 6.159.14, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	591:02 C1 12.261			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	24-Oct-2011		
Legal Land Location	SW SEC 33 TWP 35 RGE 8 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-115:05:41, 52:02:40			Data Entry Date	29-Nov-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA18			Review Date	14-Nov-2011		
Clear Roadway/Skew	8.8 / 15 deg. (RHF)			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	490 / 2010 (A)			Dept. Review Date	02-Dec-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	50						
Allowable Load (t):	Single	CS1 53 GIRDER	Semi	CS2 64 GIRDER	Train	CS3 76 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	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)	Yes							
Remarks	Not to standard.							
Other Sign Types								

Utilities (Located at)			
Utility Attachments			
Telephone	Plowed in South ditch.		Gas
Power	2 wires OH 30m North of c/l.		Municipal
Others			Problem (Y/N) Yes
Remarks	Laying along South curb & hanging to ground near c/l.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve to East over vertical crest curve.
Vertical Alignment		6	6	
Roadway Width (m)	10.000			Minor creases, too low (300mm high). Insufficient post / spacing. Not thrie beam.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		N	6	
Length (m)	29.000			
Current Standard (Y/N)	No			Insufficient post / spacing. Not thrie beam.
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 1 Spans, Lengths(m): 29, A-Ident Number:)					
Special Features					
Special Feature		8	8		
(Type : SUPERBOLT CONN)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	10	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface		6	6		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		8	8		
Deck Joints		7	7		
Temperature (deg. C)	3				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)	Gap Location				
78	East abutment				
80	West abutment				
Deck Drainage		6	6	On about 1.5% grade but girders sagged. No deck drains - all flow to West abutment.	
Drains Clogged (Y/N)	No				
Curbs/Median		N	6	Light scaling on inside face, coating peeling on exterior. Spall at 2nd post from SE (photo). Grader damage at SW.	
(Curb Type : Standard)					
Scaling (Percent Area)	10				
Bridge Rail		7	7	Some post base plates rusting.	
(Type : BRIDGE TUBE)					
Bridge Rail Posts		7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6		
(Type :)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders		4	4	Numerous hairline long. cracks in G6 U/S near E abut. Horizontal long. cracks on 100% of legs (hairline to 0.33mm) about 200mm above bottom leg. Length on avg. about 2470mm long. Also, many cracks along deck to girder. Typical cracking at chamfer line.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)	1				
(Number Of Girders : 6)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 1 Spans, Lengths(m): 29, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	Some end diaphragms cracked - photo. Spall G1 at W abut (photo).
Bearings		6	6	Some W abut bearing A/Bs are bent. Numerous bearing noeprene pads are deformed.
Temperature (deg. C)	3			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Deck underside @ G1 has shallow delam, est 0.1m2 - photo.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	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		6	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				(High water reached higher than bottom of girder on East end due to evidence of erosion. 1.2m below top of curb at East abutment (high end). 28Jun2005).
Drift (Y/N)	Yes			
Slope Protection		7	7	Base of W concrete has CL 2 riprap. E slope CL 2 riprap over whole slope.
(Type : CONCRETE; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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										
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS	2012	Patch curb spill.								
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS	2012	Reset.								
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Raise guardrail to meet standard & install posts.								
OTHER ACTION	2012	Patch spalled U/S G1 near W abut, 0.2m3 OH-V.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	60.7/62.9	Est. Repl. Yr	2040	Maint. Reqd. (Y/N)	Yes			
Special Comments for Next Inspection	Check girder cracks, curb chip & deck underside delam.		Department Comments							
Maintenance Reviewed By		Date	Estimated Total							
Proposed Long-Term Strategy	2007.07 Place chip coat by 2012. Mark Girder cracks and observe normal BIM. With normal maintenance bridge should be ok until 2050. Log haul on bridge may impact life.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	24-Jan-2015	Previous Inspection Date	06-Dec-2010							
Inspection Cycle (Default) (months)	39									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS	2012	Patch curb spall.	Programmed	2013		
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS	2012	Reset.	Programmed	2013		
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Raise guardrail to meet standard & install posts.	Programmed	2013		
OTHER ACTION	2012	Patch spalled U/S G1 near W abut, 0.2m3 OH-V.	Programmed	2013		
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	60.7/62.9	Est. Repl. Yr	2040	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Check girder cracks, curb chip & deck underside delam.		Department Comments	Next rehab schedlued for 2025 in PMA. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	01-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	2007.07.07 Place chip coat by 2012. Mark Girder cracks and observe normal BIM. With normal maintenance bridge should be ok utnil 2050. Log haul on bridge may impact life.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name			
Next Inspection Date	24-Jan-2015		Previous Inspection Date	06-Dec-2010		

Inspection Cycle (Default) (months)	39
Comment	