

Bridge Inspection									
Bridge File Number	13290 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1952/1980				Lot No.	1			
Bridge or Town Name	NEW NORWAY				Inspector Name	Owen Salava			
Located Over	TRIBUTARY TO BATTLE RIVER, 5.43, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	21:22 C1 29.002				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Sep-2012			
Legal Land Location	NE SEC 22 TWP 45 RGE 21 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:57:22, 52:53:40				Data Entry Date	02-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA16				Review Date	27-Sep-2012			
Clear Roadway/Skew	13.5 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	2,570 / 2011 (A)				Dept. Review Date	22-Oct-2012			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	4								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member		
Design Loading:	MS225						---> 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	Posting not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Hazard markers not required.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas	Crosses hwy 50m N.			
Power					Municipal				
Others	Fibreoptic in E r/w.				Problem (Y/N)	No			
Remarks									

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		7	7	Field entrance 70m NW.	
Vertical Alignment		8	8	Curves on both ends.	
Roadway Width (m)	13.000				
Approach Bump		7	7		
Guardrail (Y/N)	Yes				
Guardrail		7	7		
Length (m)	30.400			38.0m at SE & NW corners.	
Current Standard (Y/N)	No			Not thrie beam transition. Insufficient length. All posts are blocked out.	
Termination Type	TURNED DOWN				
Drainage		6	6		
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 1 Spans, Lengths(m): 6, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)					
Deck Top			N	N	
ACP covered.					
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		No			
Buffer angles paved over.					
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
No drains.					
Curbs/Median			6	6	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Light scaling. Transverse cracks. Some grader scrapes.					
Bridge Rail			5	5	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			4	7	
Last Complete Inspection Date		19-Sep-2012			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>12</b> )					
Staining girder undersidel; old stains. Curb girder ends exposed & road drainage may potentially enter void & spall girder over time.					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>7</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : 8:8)						
Girders are sitting on 300 x 100 timber shims over cap.						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	3		
<b>Now</b>	0	0	0	3		
Bearing Seats/Caps/Corbels				3	3	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
(NE subcap end has a medium check which transverses the full width (photo). Cut ends of caps not creosoted. NW end 300x100 shim rotten,bulging (photo). Rot in N abut caps. Vertical crack in N cap. Rot in S abut cap with voids <0.25. Cored in 2012. 09Jun2012).						
Backwalls/Breastwalls			5	5		
Greatest Height (m)		2.00		Vertical backwall sheathing with front sheathing added. Planks do not extend to end piles. 1x1m long breastwall knocked off.		
Wingwalls			5	5		
(Total Number of Bearing Piles : 11:11)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	1		
<b>Now</b>	16	0	0	1		
(A2P5 crushing at strut. Cored in 2012; beginning to rot. 09Jun2012).						
Piles			3	3		
Paint/Coating			X	X		
Abutment Stability			5	5		
Scour/Erosion			4	5		
Scour hole in SB under bridge - 500mm deep.						
<b>Piers/Bents</b>						
(Type : )						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				X	X	
(Type : )						
(Depth(mm) : )						
(Width(mm) : )						
(Total Number of Bearing Piles : )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles			X	X		
Greatest Height (m)						
Bracing/Struts/Sheathing			4	5		
Strut. (3 centre struts are set on caps instead of piles. 09Jun2012).						
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>3</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Curve in East side - 80 deg to South but gradual.
(D/S Direction : <b>E</b> )				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Curb)	1.2			(09Jun2012) Debris on struts.
Drift (Y/N)	No			
Slope Protection (Type : <b>NONE; NONE</b> )		4	4	Scour hole under bridge; no noted loss of fill.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations											
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #					
REPAIR/REPLACE BRIDGE RAIL	2012	Weld patch small tear/hole at top of SE b/r post & paint with zinc-rich paint.									
SEAL CURBS											
PATCH DECK											
OVERLAY DECK											
STRAIGHTEN/REPLACE MEMBERS											
WASHING											
SHOTCRETE REPAIRS											
CORE TIMBER CAPS/CORBELS											
REPAIR/REPLACE TIMBER CAPS											
REPAIR ABUTMENT SCOUR/EROSION											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL STRUTS											
OTHER ACTION	2012	Post A2P5.									
OTHER ACTION	2012	Replace caps.									
OTHER ACTION	2012	Reattach South breastwall plank.									
OTHER ACTION	2012	Clean out curb girder void & seal ends.									
OTHER ACTION	2013	Replace 300x100 timber shim, rotten at NW.									
OTHER ACTION	2013	Clean out curb girder void & seal ends.									
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.4/60.9</b>	<b>Est. Repl. Yr</b>	<b>2029</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>				
Special Comments for Next Inspection	Consider upgrading b/r to double layer to meet std.		Department Comments								
Maintenance Reviewed By				Date							
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Kris Bosters		Previous Assistant's Name								
Next Inspection Date	19-Jun-2014		Previous Inspection Date	06-Jun-2012							
Inspection Cycle (Default) (months)	21		Estimated Total	0							

Comment	
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Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Weld patch small tear/hole at top of SE b/r post & paint with zinc-rich paint.	Programmed	2013			
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Post A2P5.					
OTHER ACTION	2012	Replace caps.	Programmed	2013			
OTHER ACTION	2012	Reattach South breastwall plank.	Programmed	2013			
OTHER ACTION	2012	Clean out curb girder void & seal ends.	Programmed	2013			
OTHER ACTION	2013	Replace 300x100 timber shim, rotten at NW.	Programmed	2013			
OTHER ACTION	2013	Clean out curb girder void & seal ends.	Programmed	2013			
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.4/60.9</b>	Est. Repl. Yr	2029	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Consider upgrading b/r to double layer to meet std.		Department Comments	Currently due for replacement in 2024. DA			
Maintenance Reviewed By	Darron Ahlstedt		Date	30-Jan-2013	Estimated Total	0	
Proposed Long-Term Strategy							

On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Kris Bosters	Previous Assistant's Name	
Next Inspection Date	19-Jun-2014	Previous Inspection Date	06-Jun-2012
Inspection Cycle (Default) (months)	21		
Comment			