Bridge Inspection

Bridge File Number	71580 -1 Bridge	Form Type	PCS
Year Built/Year Supstr	1983/1983	Lot No.	2
		Inspector Name	Todd Warshawski
Bridge or Town Name	ROCHESTER	Inspector Class	BR CLS B
Located Over	TRIBUTARY TO DAPP CK, 8.11.84.15.2, WATERCRS-ST	Assistant Name	
		Assistant Class	
Located On	661:08 C1 20.694	Inspection Date	27-May-2010
Water Body Cl./Year		Data Entry By	Theresa Lacusta
Navigabil. Cl./Year		Data Entry Date	21-Jun-2010
Legal Land Location	SE SEC 20 TWP 62 RGE 24 W4M	Reviewer Name	Arnold Assenheimer
Longitude, Latitude	-113:33:38, 54:22:13	Review Date	09-Jun-2010
Road Authority	Alberta Transportation (AIT)	Dept. Reviewer Name	Brent Herrick
Contract Main. Area	CMA10	Dept. Review Date	29-Jun-2010
Clear Roadway/Skew	10 /	Follow-Up By	
AADT/Year	300 / 2009 (A)		
Road Classification	RCU-209-110		
Detour Length (km)	10		

Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member
Design Loading:		MS23					---> 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)	No
Remarks	
Other Sign Types	

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	2 wires North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	
Vertical Alignment		9	9	
Roadway Width (m)	10.000			
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Strike damage NE - Still functional plow damage SW - still functional. Non standard connection at bridge.
Guardrail		8	4	
Length (m)	19.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		8	8	
Approach Road General Rating		**9**	**9**	

Superstructure						
Bridge Component					**Last**	**Now**	**Explanation of Condition**
(Primary Span : **SM, 1 Spans, Lengths(m): 6, A-Ident Number:**)							
Special Features							
Special Feature						X	
(Type :)							
Special Feature						X	
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last							
Now							
Wearing Surface					4	4	Longitudinal ACP cracks over keys.
(Material Type : **ACP**)							
(Thickness(mm) : **50**)							
Lateral Connection Problem (Y/N)			Yes				
Deck Top					N	N	
Deck Rideability					7	6	
Deck Joints					N	N	Paved over.
Bump (Y/N)			No				
Deck Drainage					N	5	No deck drains.
Drains Clogged (Y/N)							
Curbs/Median					N	4	Lift pockets not grouted.
(Curb Type : **Standard**)							
Scaling (Percent Area)							
Bridge Rail					7	7	TOrch cut holes in 4 posts.
(Type : **GALVANIZED STEEL BRIDGE TUBE**)							
Bridge Rail Posts					N	5	
(Type : **GALVANIZED POST STEEL;GALVANIZED POST STEEL**)							
Bridge Rail/Posts Coating					7	6	
(Type : **GALVANIZED**)							
Sidewalk					X	X	
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Girders					5	5	Longitudinal hairline cracks on South & North ext girder fascia runs length of girder. 300 mm up from bottom. Staining from connecter pockets at all locations.
Last Complete Inspection Date			27-May-2010				
Cracking (Y/N)			Yes				
Spalling (Percent Area)			0				
Lift or Connector Pocket Grouted (Y/N)							
(Number Of Girders : **9**)							
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				
(Extended Backwall Piles (Y/N) : **Y**)				
(Extended Backwall Piles Spacing(mm) : **1200**)				
(Total Number of Caps/Corbels : **3:3**)				Sub caps cut to forn crown. East subcap horizontal check.
Bearing Seats/Caps/Corbels Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				
Bearing Seats/Caps/Corbels		6	6	
(Type : **TREATED TIMBER**)				
(Depth(mm) : **300**)				
(Width(mm) : **350**)				
Backwalls/Breastwalls		7	7	
Greatest Height (m)	2.50			
Wingwalls		7	6	
(Total Number of Bearing Piles : **10:10**)				
Piles Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				
Piles		7	7	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type :)				
(Total Number of Caps/Corbels :)				
Bearing Seats/Caps/Corbels Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				
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)
Last				
Now				
Pier Shaft/Piles		X	X	
Greatest Height (m)				
Bracing/Struts/Sheathing		7	7	150x200 struts
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)	Yes			Old backwall in channel
Substructure General Rating		**6**	**6**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **N**)				
(D/S Direction : **S**)				
Alignment		7	7	Undercutting of banks U/S of bridge.
Bank Stability		4	4	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection		7	7	Old backwall on West abut.
(Type : **RIP RAP; RIP RAP**)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**4**	**4**	

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2010	properly connect approach rail.				
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	2010	Remove old backwall planks				
INSTALL STRUTS						
OTHER ACTION	2010	Seal approach ACP cracks. Re-seal ACP wearing surface cracks on deck.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**61.1/61.1**	**Sufficiency Rating (Last/Now) (%)**	**64.5/63.5**	Est. Repl. Yr	2034	Maint. Reqd. (Y/N)	Yes

Special Comments for Next Inspection	Monitor cracks on girders.	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	Dave Lam	Previous Assistant's Name	
Next Inspection Date	27-Aug-2013	Previous Inspection Date	27-Feb-2007
Inspection Cycle (Default) (months)	39		
Comment			