

Bridge Inspection							
Bridge File Number	71146 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1958/1958			Lot No.	1		
Bridge or Town Name	MORINVILLE			Inspector Name	Melanie Johnson		
Located Over	RIVIERE QUI BARRE, 6.65.14, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	642:02 C1 17.369			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	28-Jun-2011		
Legal Land Location	SE SEC 3 TWP 56 RGE 27 W4M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-113:55:23, 53:48:12			Data Entry Date	06-Jul-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Arnold Assenheimer		
Contract Main. Area	CMA09			Review Date	29-Jun-2011		
Clear Roadway/Skew	8 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	1,390 / 2010 (A)			Dept. Review Date	18-Jul-2011		
Road Classification	RCU-208-110			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 29 GIRDER	Semi	CS2 52 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		40.0
Posted:	Lane	EB	At Junction (Y/N)	Yes	In Advance (Y/N)	Yes	At Bridge (Y/N)
Posted:	Lane	WB	At Junction (Y/N)	Yes	In Advance (Y/N)	Yes	At Bridge (Y/N)
Remarks							
Hazard Marker At Bridge (Y/N)	No						
Remarks	Required.						
Other Sign Types							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	South ditch & on bridge.		Gas
Power	2 lines to north r/w.		About 65 m to west.
Others			Municipal
Remarks			Street lights.
			Problem (Y/N)
			Yes
Remarks	Telephone conduit attached to south interior girder. Is only attached at ends and sagging.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Business/residential entrances East & West. Bridge located East of reserve. 50kph WB, 80kph EB.
Vertical Alignment		7	7	
Roadway Width (m)	8.200			West approach settled ~40mm. 1st post off SE corner missing blocking. Insufficient length. 53.2m @ SW; 49.4m @ NW; 45.6m @ NE; 41.8m @ SE. 4 post adjacent to bridge @ NE corner not attached to rail and leaning.-photo
Approach Bump		4	4	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	45.600			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		N	4	Scouring at corners eroding headslopes and exposed girder void at SW - photo.
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 3 Spans, Lengths(m): 8.5-8.5-8.5, 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			6	6	Map cracking. Yellow solid centerline worn off.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			4	4	There is also large erosion gully down East headslope.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Plow damage, spalled @ interior face of south curb.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Double layer. Not spliced correctly. NE end post/rail connection missing.-photo
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			6	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	New curbs are type SC girders.
Last					
Now					
Girders			4	4	S3G2 spalled in bearing area over P2. S3G5/G6 wide longitudinal crack outside AZ in one leg each girder - photo. S1G5/G6 S3G9 honeycomb in South leg - photo. S2G2 spalled in anchor zone - photo. All curb girders have spot corrosion, S3G10 has longitudinal crack. (Curb girders stained, replaced in 2000. 18/Nov/2004)
Last Complete Inspection Date		10-Mar-2008			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 30)					Unable to access center span due to high water. View from ends.
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						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1600)						
West end 4th pile banded P1, A2 split - photo.						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : UNTREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 356)						
Backwalls/Breastwalls				5	5	East backwall is anchored, West is not. East end backwall is moving vertically.
Greatest Height (m)		2.00				
Wingwalls				5	5	NE wing tin top punctured. NW wing looks like frost heaving pile up.
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				4	3	East & West headslope scouring 18m x 2mx 2m- photo. Beaver dam just upstream of bridge directing flow @ West headslope.
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						Rusting caps @ both piers, flaking.
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : STEEL)						
(Depth(mm) : 356)						
(Width(mm) : 305)						
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				5	5	
Greatest Height (m)		4.60				
Bracing/Struts/Sheathing				6	4	2 split braces on East pier.
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		5	5	(NW corner pier some scouring occurring between East pier & West pier. Aug/20/01)
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Erosion channels @ East headslope.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		4	4	
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Comment	
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