

Bridge Inspection							
Bridge File Number	78225 -1 Bridge			Form Type	PT		
Year Built/Year Supstr	1964/1928			Lot No.	2		
Bridge or Town Name	MILLARVILLE			Inspector Name	Garry Roberts		
Located Over	WARE CREEK, 2.13.27.2.9.10, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	LOCAL ROAD			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	22-Jun-2012		
Legal Land Location	NE SEC 27 TWP 20 RGE 5 W5M			Data Entry By	Erin Roberts		
Longitude, Latitude	-114:36:24, 50:43:47			Data Entry Date	16-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Joel Wozney		
Contract Main. Area	CMA27			Review Date	26-Jun-2012		
Clear Roadway/Skew	4.9 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	25 / 2005 (E)			Dept. Review Date	17-Jul-2012		
Road Classification	RLU-207G-60			Follow-Up By			
Detour Length (km)	22						
Allowable Load (t):	Single	H 10 FLOOR BEAM	Semi	HS 19 FLOOR BEAM	Train	CS3 28 FLOOR BEAM	----> On Critical Spans ---->Critical Member
Design Loading:	HS15						----> Primary Span

Posting Information							
Required Load Posting (t)	Single	11	Semi	19	Truck Train	29	
Posted Loading (t)	Single	11.0	Semi	19.0	Truck Train	29.0	
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)	Yes	In Advance (Y/N)	No	At Bridge (Y/N) Yes
Remarks	Road closed SB of bridge						

Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	Stock at large, "road closed", Creek ID						

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	5	North side has immediate tight bend. South side has intersection 15m South. Road closed Dec 15- June 15 Texas gate 50m South.
Vertical Alignment		6	6	
Roadway Width (m)	5.000			
Approach Bump		5	5	Gravel.
Guardrail (Y/N)	No			
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)				
Termination Type				
Drainage		7	7	
Approach Road General Rating		4	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 1 Spans, Lengths(m): 15.2, A-Ident Number: A0012-09)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	50	0	0	0	
Now	50.0	0.0	0.0	0.0	
Wearing Surface/Deck Top				5	5
(Material Type : UNTREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 300)					
Deck Rideability				7	6
Deck Joints				X	X
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards				7	6
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 100)					
(Width(mm) : 300)					
Bridge Rail				4	4
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts/Blocking				8	7
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating				7	7
(Type : GALVANIZED)					
Sidewalk				X	X
Bolts drilled near edge of TT stringer.					
Double layer Incorrect lap at NE and SW ends					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : PT, 1 Spans, Lengths(m): 15.2, A-Ident Number: A0012-09)							
Wide Load Damage (Y/N)	No			Bullet holes filled with bolts. U3L4E & L01E have 25mm dents. E/W chords bow out in center. Cable crease at L0N. U3L3E bullet dent, alo 10 x 70mm bend, both at stringer, outside 10/ bay x 4 bays West exterior stringer @ 2nd panel split, banded & sistered with 100 x 300 TT. Wheel guard bolts weakened stringers. 2			
Top Chord		5	5				
Batter Posts		4	5				
Diagonals		5	5				
Verticals		5	5				
Connections		6	6				
Floor Beams		6	6				
Bottom Chord		7	6				
Lateral Bracings		6	6				
(No. of Stringers : 40)							
Stringer Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	0	0	0	0			
Stringers		5	5				
(Type : TREATED TIMBER)							
(Width(mm) : 150)							
(Depth(mm) : 300)							
(Spacing(mm) : 640)							
Paint Condition		4	4	Floorbeams weren't painted last time. 20% corrosion of truss. Pitting starting on floorbeams.			
(Colour Description : BLUE)							
(Colour Code : 502-105)							
Touchup Required (Y/N)	No						
Bearings		5	5	No bottom steel bearing plate. Top plates bolted directly to corbels.			
Temperature (deg. C)	15						
(Expansion Type : SLIDING PLATE)							
(Fixed Type : PINNED BEARING)							
Functioning (Y/N)	Yes						
Sub Deck/Deck Underside		7	6				
(Material Type : TREATED TIMBER)							
(Plank Thickness(mm) : 100)							
(Plank Width(mm) : 305)							
Defects (Percent Area)	1						
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating		4	5				
Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 900)							

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
(Total Number of Caps/Corbels : 9:9)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			7	6		
(Type : TREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls			4	4		
Greatest Height (m)		4.00				
Wingwalls			8	7		
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	16	0	0	0		
Now	16	0	0	0		
Piles			N	N		
Paint/Coating			7	X		
Abutment Stability			7	7		
Scour/Erosion			7	6		
Erosion scars extend beyond SW wingwall						
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 :)						
(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			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				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Well defined channel and cut into bedrock.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		4	4	Scouring reaching behind SW WW
HWM (m below Top of Curb)				No HWM visible
Drift (Y/N)	Yes			Medium to large drift caught on banks
Slope Protection		4	4	SW bank scoured but is bedrock underneath.
(Type : NATURAL; NATURAL)				
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	2012	Relap existing bridgerail ends					
RETROFIT BRIDGE RAIL							
PATCH DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2012	20m3 Class 2 @ SW.					
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2012	Lower sheathing by 2-300mm wide planks @ SW Abutment					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	38.2/46.3	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Access from North, next to Ware creek staging area. Road closed at bridge S/B due to washout.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	22-Sep-2015		Previous Inspection Date	20-May-2010			
Inspection Cycle (Default) (months)	39						
Comment							