

Bridge Inspection							
Bridge File Number	78213 -1 Bridge			Form Type	PT		
Year Built/Year Supstr	1910/1912			Lot No.	4		
Bridge or Town Name	MILLARVILLE			Inspector Name	Garry Roberts		
Located Over	THREEPOINT CREEK, 2.13.27.2.9, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	LOCAL ROAD			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	11-Dec-2011		
Legal Land Location	NE SEC 6 TWP 21 RGE 4 W5M			Data Entry By	Erin Roberts		
Longitude, Latitude	-114:32:29, 50:45:21			Data Entry Date	29-Jan-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	UNDEFINED CMA			Review Date	21-Dec-2011		
Clear Roadway/Skew	4.3 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	24 / 2011 (E)			Dept. Review Date	06-Feb-2012		
Road Classification	RLU-207G-60			Follow-Up By			
Detour Length (km)	22						
Allowable Load (t):	Single	CS1 20 STRINGER	Semi	CS2 27 U1L2	Train	CS3 35 LOL1	----> On Critical Spans ---->Critical Member
Design Loading:	HS15						----> Primary Span

Posting Information							
Required Load Posting (t)	Single	21	Semi	28	Truck Train	35	
Posted Loading (t)	Single	21.0	Semi	28.0	Truck Train	36.0	
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N) Yes
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) Yes
Remarks	Signs adequate due to junction distance and other bridge load signs						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	Information route, Creek ID, Travel @ own risk. Road closed Dec 1 - May 15						

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	43.0 m South
Power	South ROW	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	5	Gate at East end. Closed Dec 1 - May 15
Vertical Alignment		6	5	
Roadway Width (m)	5.000			Texas gate 25m West of bridge.
Approach Bump		5	5	
Guardrail (Y/N)				
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)				
Termination Type				
Drainage		5	5	
Approach Road General Rating		4	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 1 Spans, Lengths(m): 24.4, A-Ident Number: A0036-19)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last	90	0	0	0	
Now	90.0	0.0	0.0	0.0	
Wearing Surface/Deck Top				6	N
(Material Type : UNTREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 300)					
Deck Rideability				7	7
Deck Joints				X	X
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards				5	5
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 100)					
(Width(mm) : 300)					
Bridge Rail		7	7	3 ply flexbeam over lattice.	
(Type : FLEX BEAM)					
Bridge Rail Posts/Blocking		7	7	Minor rusting - 10% @ lattice rail	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(Type : PAINT)					
Sidewalk		X	X		

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : PT, 1 Spans, Lengths(m): 24.4, A-Ident Number: A0036-19)						
Wide Load Damage (Y/N)	No					(Strengthened top chord Mar '93)
Top Chord			6	7		
Batter Posts			7	7		
Diagonals			6	7		
Verticals			7	7		
Connections			7	7		
Floor Beams			7	7		
Bottom Chord			6	7		
Lateral Bracings			7	7		6 bays x 7 stringers = 42
(No. of Stringers : 42)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		For Details, see 2011 UT Report
Last						
Now						
Stringers			7	7		
(Type : STEEL)						
(Width(mm) : 120)						
(Depth(mm) : 255)						
(Spacing(mm) : 800)						
Paint Condition			7	6		
(Colour Description : BLUE)						
(Colour Code : 15182)						
Touchup Required (Y/N)	No					
Bearings			5	6		
Temperature (deg. C)	-5					
(Expansion Type : SLIDING PLATE)						
(Fixed Type : PINNED BEARING)						
Functioning (Y/N)	Yes					A2 A1
Sub Deck/Deck Underside			7	7		
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 305)						
Defects (Percent Area)	0					
Span Alignment Problems						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
Superstructure General Rating			5	6		
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 800)						
Spall crack under SE bearing @ East abutment. Concrete abutment East end.						

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
(Total Number of Caps/Corbels : 12:1)					
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			5	5	
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 305)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		2.70			
Wingwalls			7	6	
(Total Number of Bearing Piles : 12:0)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles			5	5	
Paint/Coating			X	X	
Abutment Stability			7	7	
Scour/Erosion			7	7	
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		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		5	4	Shale bank at East abutment is eroded to within 0.5m of concrete footing.
HWM (m below Top of Curb)	2.4			
Drift (Y/N)	No			
Slope Protection		4	4	Natural loose rock bank @ West & natural rock wall @ East.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	6	
(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							
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							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	39.3/49.3	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor erosion of shale bank at East abut. Currently within 0.5m at South end. May require rock protection in future.		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	11-Mar-2015		Previous Inspection Date	08-Jun-2011			
Inspection Cycle (Default) (months)	39						
Comment							