

Bridge Inspection											
Bridge File Number	08501 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1974/1974				Lot No.	1					
Bridge or Town Name	MANYBERRIES				Inspector Name	Jon Davies					
Located Over	MANYBERRIES CREEK, 11.1, WATERCRS-ST				Inspector Class	BR CLS B					
Located On	889:01 C1 14.720				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	24-Jun-2012					
Legal Land Location	SW SEC 19 TWP 5 RGE 5 W4M				Data Entry By	Lauren Korte					
Longitude, Latitude	-110:40:43, 49:23:37				Data Entry Date	26-Jul-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA24				Review Date	09-Jul-2012					
Clear Roadway/Skew	8.9 / -15 deg. (LHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	120 / 2011 (A)				Dept. Review Date	30-Jul-2012					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	10										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS25									----> 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	Not required.								

Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Junctions North, East & West. Side/destination South.								

Utilities (Located at)										
Utility Attachments										
Telephone	West side.				Gas					
Power	3 line East side.				Municipal					
Others					Problem (Y/N)	No				
Remarks	Power crosses road approx 90m North.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Intersection 100m North. Grade to South.				
Vertical Alignment			6	6					
Roadway Width (m)	9.500				30m at SE & NW corner. Not thriebeam.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	15.700								
Current Standard (Y/N)	No								
Termination Type	TURN DOWN								
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 9.1-9.1-9.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	6	
(Material Type : MIX TYPE 1 ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	7	
Deck Joints			N	N	
Bump (Y/N)		Yes		Paved over. Minor in both directions.	
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			4	3	
(Curb Type : Standard)					
Scaling (Percent Area)		2		0.3 m x 0.2 m spall at North end of Sp. 2 East curb. Reinforcing steel exposed.	
Bridge Rail			7	7	
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	1	
Girders			4	3	
Last Complete Inspection Date		24-Jun-2012		NE curb 200mm x 0.5m sq. spall @ bottom and 1 interior spalled diagonal cracks at corners. Rated 4.	
Cracking (Y/N)		Yes		Narrow cracking at underside of most girders.	
Spalling (Percent Area)		2		Sp.3-G1 curb girder has narrow longitudinal cracking with corrosion staining suspected to be from pre-stressing stroud.	
Lift or Connector Pocket Grouted (Y/N)		No		Corrosion staining from connector pockets.	
(Number Of Girders : 24)			Lift pockets at curbs starting to spall.		
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	3	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1500)					
(Total Number of Caps/Corbels : 1:1)					
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			8	7	
(Type : STEEL)					
(Depth(mm) : 350)					
(Width(mm) : 370)					
Backwalls/Breastwalls			7	6	
Greatest Height (m)		1.44			
Wingwalls			6	6	
(Total Number of Bearing Piles : 9:9)					
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	6	
Scour/Erosion			6	6	
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	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels			8	7	
(Type : STEEL)					
(Depth(mm) : 356)					
(Width(mm) : 356)					
(Total Number of Bearing Piles : 9:9)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Pier Shaft/Piles			5	5	
Greatest Height (m)		3.70			
Bracing/Struts/Sheathing			7	6	
Nose Plate			X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		5	5	Both piers leaning approx. 150 mm from construction.
Scour		6	6	
Debris (Y/N)	Yes			1 old pile at North headslope.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	1.5			Beaver dam across channel 30 m East. No adverse effect.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2012	Repair East curb spall- Sp.2- 0.2m3. Re-grout all curb lift pockets.					
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	Investigate and repair corrosion crack Sp.3-G1.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	63.9/60.4	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	24-Sep-2015		Previous Inspection Date	14-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							