

Bridge Inspection									
Bridge File Number	13151 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1963/1963				Lot No.	3			
Bridge or Town Name	MADDEN				Inspector Name	Garry Roberts			
Located Over	BEAVERDAM CREEK, 3.89.8.11, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	574:02 C1 9.892				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Jul-2012			
Legal Land Location	SE SEC 27 TWP 28 RGE 3 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-114:19:55, 51:24:60				Data Entry Date	02-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA28				Review Date	07-Aug-2012			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	180 / 2011 (A)				Dept. Review Date	06-Sep-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 57 GIRDER	Train	CS3 82 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		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)	Yes								
Remarks	NE sign leaning 45 degrees.								
Other Sign Types	Narrow bridge, 80 km/hr, Stop ahead.								
Utilities (Located at)									
Utility Attachments									
Telephone	SOUTH DITCH.				Gas	80m East.			
Power	2 WIRE NORTH FENCE LINE.				Municipal				
Others					Problem (Y/N)	No			
Remarks	Telus line strung under bridge @ East abutment.								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Stop sign 100m East.				
Vertical Alignment			8	8	Intersection with SH 766 to East.				
Roadway Width (m)	11.000				Gravel at West end - paved at east end.				
Approach Bump			5	5					
Guardrail (Y/N)	No								
Guardrail			X	X					
Length (m)									
Current Standard (Y/N)	No								
Termination Type	NONE								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HC, 1 Spans, Lengths(m): 11.6, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	60.0	0.0	0.0	0.0		
Wearing Surface			X	X		
(Material Type :)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)		No				
Deck Top			6	6		
Deck Rideability			6	6		
Deck Joints			X	X		
Bump (Y/N)		No				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			7	7		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			4	4	Double layer. Missing 8 splice bolts at North curb wing ends. Missing 1 anchor bolt nut at North curb. Incorrect lap @ SE wing end.	
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts			4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Girders			4	4	2/11 girders wide cracks in AZ in 1 leg, 1 of which is a curb girder. Narrow Shear Cracks @ West abut in G6 & G8. Remainder of girders in good condition.	
Last Complete Inspection Date		26-Jul-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 11)						
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) : N)				(CAPS REPLACED 1995).	
(Extended Backwall Piles Spacing(mm) :)					
(Total Number of Caps/Corbels : 3:4)					
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	7
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 356)					
Backwalls/Breastwalls				7	7
Greatest Height (m)		2.30			
Wingwalls				5	5
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles				7	7
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 :)					
(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				X	X
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)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Sharp bend up stream.
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		6	6	
(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		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE 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							
INSTALL STRUTS							
OTHER ACTION	2012	Straighten hazard marker @ NE corner.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	70.3/70.1	Est. Repl. Yr	2027	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	26-Oct-2015		Previous Inspection Date	20-Apr-2009			
Inspection Cycle (Default) (months)	39						
Comment							