

Bridge Inspection							
Bridge File Number	74739 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1964/1964			Lot No.	3		
Bridge or Town Name	TWIN BUTTE			Inspector Name	Jason Rusu		
Located Over	CPR			Inspector Class	BR CLS A		
Located On	505:02 C1 8.268			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	10-Jun-2012		
Legal Land Location	SW SEC 25 TWP 4 RGE 29 W4M			Data Entry By	Anne Roberts		
Longitude, Latitude	-113:47:09, 49:19:33			Data Entry Date	23-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA26			Review Date	10-Jul-2012		
Clear Roadway/Skew	9.4 / -45 deg. (LHF)			Dept. Reviewer Name			
AADT/Year	380 / 2012 (A)			Dept. Review Date			
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	6						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span	

Posting Information													
Required Vert. Clearance Posting (m)													
Posted Vertical Clearance (Y/N)		No											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)		
Remarks		Not req.											
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													

Hazard Marker At Bridge (Y/N)	No										
Remarks	Not Req'd										
Other Sign Types											

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

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		6	6	INTERSECTION 300 M EAS	
Vertical Alignment		6	6	Curves and rise to west Asphalt overlay in 2001	
Roadway Width (m)	8.500				
Approach Bump		6	6		
Guardrail (Y/N)	Yes				
Guardrail		7	7		
Length (m)	19.000				
Current Standard (Y/N)	No				
Termination Type	TURNDOWN				
Drainage		7	4		

Approach Road					
		Last	Now	Explanation of Condition	
Approach Road General Rating		7	6	50 mm settlement at SW is directing drainage to abutment.	
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 6 Spans, Lengths(m): 6.1-8.5-8.5-11.6-8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface		7	7	ACP THICKNESS MEASURED @ CURB DRAIN TRANSV CRACKS OVER EACH PIER & ABUT. Only 130mm curb face visible indicating excessive ACP at 170mm.	
(Material Type : ACP)					
(Thickness(mm) : 170)					
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		8	8		
Drains Clogged (Y/N)		No			
Curbs/Median		6	6		
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail		4	4	SINGLE LAYER FLEXBEAM Missing 1 post to rail bolt Sp.6 and 1 pulled through at Sp.5. SOME PITTING ON POSTS Missing 4 splice bolts Sp.6 but spliced on post.	
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts		7	7		
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(Type : PAINT)					
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	Narrow long crk ON SOME UNITS. Sp.3-G7 has spall in 1 leg near bearing. Sp.6-G1 curb wide crack in AZ-1leg 11/spanx6 All other girders rate 5-6	
Last Complete Inspection Date		10-Jun-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		3			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 66)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HC, 6 Spans, Lengths(m): 6.1-8.5-8.5-11.6-8.5-8.5, A-Ident Number:)						
Superstructure General Rating		4	4			
Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Single steel caps at abuts.	
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels		7	7			
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls		6	6			
Greatest Height (m)		1.40				
Wingwalls		X	X			
(Total Number of Bearing Piles : 6:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Buried	
Last	0	0	0	0		
Now	0	0	0	0		
Piles		9	9			
Paint/Coating		X	X			
Abutment Stability		7	7			
Scour/Erosion		7	7			
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 2:2:2:2:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Double 305x305 steel caps each pier	
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels		8	8			
(Type : STEEL)						
(Depth(mm) : 600)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 8:9:11:11:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	From west. Pier 1-8 piles, P2-9, P3-11, P4-9, P5-11 Checks but all piles banded	
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles		6	6			
Greatest Height (m)		7.20				
Bracing/Struts/Sheathing		7	7			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	RAILWAY OVERPASS Railway no longer in use.
Traffic Safety Features		X	X	
Type	NONE			
Slope Protection		8	8	
(Type : NATURAL; NATURAL)				
Bank Stability		8	8	
Drainage		8	8	
Grade Separation General Rating		8	8	

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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/	Sufficiency Rating (Last/Now) (%)	67.3/	Est. Repl. Yr		Maint. Req. (Y/N)	
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	10-Sep-2015		Previous Inspection Date	09-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							