

Bridge Inspection										
Bridge File Number	07349 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1963/1963				Lot No.	1				
Bridge or Town Name	GADSBY				Inspector Name	Owen Salava				
Located Over	BIGKNIFE CREEK, 5.29, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	852:02 C1 4.599				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	15-Aug-2012				
Legal Land Location	NW SEC 2 TWP 39 RGE 17 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-112:21:22, 52:19:43				Data Entry Date	17-Sep-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA20				Review Date	04-Sep-2012				
Clear Roadway/Skew	10 / -15 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	90 / 2011 (A)				Dept. Review Date	22-Oct-2012				
Road Classification	RCU-209G-90				Follow-Up By					
Detour Length (km)	3									
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 67 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	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	NW marker mounted off bridge.									
Other Sign Types										
Utilities (Located at)										
Utility Attachments										
Telephone	West r/w.				Gas					
Power	2 wires 15m East of c/l.				Municipal					
Others					Problem (Y/N)		No			
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			7	7	Approach to North, slight sag at bridge.					
Vertical Alignment			7	7						
Roadway Width (m)	8.000									
Approach Bump			7	7						
Guardrail (Y/N)	No									
Guardrail			X	X						
Length (m)										
Current Standard (Y/N)	No									
Termination Type										
Drainage			7	7						
Approach Road General Rating			7	7						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HH, 1 Spans, Lengths(m): 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 (%)	Gravel covered.	
Last	80					
Now	60.0	0.0	0.0	0.0		
Wearing Surface			X	X	Not connected.	
(Material Type :)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	6		
Deck Rideability			6	6		
Deck Joints			X	X		
Bump (Y/N)						
Deck Drainage			6	6		
Drains Clogged (Y/N)		No				
Curbs/Median			6	6		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			4	4	Bulb ends. Improperly lapped @ SW, NE.	
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts			6	6	15% corrosion to posts.	
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating			4	4		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last				1		
Now	0	0	0	2		
Girders			3	3	G5 S end wide longit. cracking in both legs in AZ. G6 large punch-through mid-span. G11 spall on leg, rebar showing, 50mm from end. End diaphragms spalled at dowel pins on 4 girders on S abut near E side. G1 spalling in both legs in AZ - photo.	
Last Complete Inspection Date		15-Aug-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		10				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 12)						
Span Alignment Problems						
Vertical (Y/N)		No		Girder separation G2/3, 30mm.		
Horizontal (Y/N)		No				
Superstructure General Rating			3	3		

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 : 5:5)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls			6	6		
Greatest Height (m)		2.60				
Wingwalls			6	6		
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last				1		
Now	0	0	0	0		
Piles				3	5	
Paint/Coating				X	X	
Abutment Stability			4	4		
Scour/Erosion			5	5		
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			4	6		
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description :)						
(Colour Code :)						
Pier Stability			X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	6	
Debris (Y/N)	Yes			Old piles in streambed.
Substructure General Rating		3	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)	1.4			
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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	2012	Full depth repair 0.1m3 NH.							
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	Remove old piles from streambed.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	33.3/38.9	Sufficiency Rating (Last/Now) (%)	60.6/62.5	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes		
Special Comments for Next Inspection	Monitor girder cracking.		Department Comments						
Maintenance Reviewed By		Date		Estimated Total	0				
Proposed Long-Term Strategy	2004.05.29 Bridge should be ok until 2013.								
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava	Previous Assistant's Name							
Next Inspection Date	15-Nov-2015	Previous Inspection Date	01-Sep-2009						
Inspection Cycle (Default) (months)	39								
Comment									

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS						
PATCH DECK	2012	Full depth repair 0.1m3 NH.	Programmed	2012		
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	Remove old piles from streambed.	Programmed	2012		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	33.3/38.9	Sufficiency Rating (Last/Now) (%)	60.6/62.5	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Monitor girder cracking.	Department Comments	Currently programmed for replacement in 2018.
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Maintenance Reviewed By	Andrew Smikles	Date	19-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	2004.05.29 Bridge should be ok until 2013.				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name			
Next Inspection Date	15-Nov-2015	Previous Inspection Date	01-Sep-2009		
Inspection Cycle (Default) (months)	39				

Comment	
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