

Bridge Inspection										
Bridge File Number	73657 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1967/1967				Lot No.	1				
Bridge or Town Name	MONITOR				Inspector Name	Owen Salava				
Located Over	SOUNDING CREEK, 4.4, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	12:20 C1 22.142				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	19-Jul-2012				
Legal Land Location	SE SEC 14 TWP 35 RGE 4 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-110:28:06, 52:00:03				Data Entry Date	02-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA22				Review Date	31-Jul-2012				
Clear Roadway/Skew	12.8 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	470 / 2011 (A)				Dept. Review Date	07-Aug-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	45									
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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)	No								
Remarks	Not required.								
Other Sign Types	Creek ID, "Sounding Creek".								

Utilities (Located at)									
Utility Attachments									
Telephone	In r/w to South.				Gas				
Power	3 wires 30 m North of c/l.				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	Hill to East					
Vertical Alignment		7	7						
Roadway Width (m)		11.300							
Approach Bump		7	7						
Guardrail (Y/N)		Yes		6 broken posts at SW & 1 at SE.					
Guardrail		7	4						
Length (m)		45.600		45.6m @ NW & SE corners. 57.0m @ NE & SW corners. Not thrie beam.					
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage		7	7						
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 8.5-10.1-8.5, A-Ident Number:)					
Special Features					
Special Feature		7	7	"8" Lateral Strengthening Retrofit strengthening brackets installed @ S3G6/G7, S3G7/G8, S2G4/G5, S2G8/G9, S2G10/G11, S1G6/G7 & S1G8/G9.	
(Type : EXT LATER POST TENS)					
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		6	6	7 lines - narrow longitudinal cracks in ACP.	
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		N	N	Asphalt covered.	
Bump (Y/N)		No			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		6	6		
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail		4	4	Double layer; N rail missing 2 splice bolts, several loose splice bolts. Post sheared off at S2, S rail.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		7	2		
(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)	Centre span not visible with water level.
Last	15	0	0	0	
Now	15	0	0	0	
Girders		4	4	22/45 have narrow shear cracks. 2 other girders with wide crack AZ, 1 leg only. (S2G5 spall in AZ - 1 leg only. 12Feb2009). S3G11 spall midspan. Fascia spall at G1 on S2-3. S1G15 & S3G15 spall at piers.	
Last Complete Inspection Date		12-Feb-2009			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 45)					
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 : 3:5)						
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) : 356)						
(Width(mm) : 305)						
Backwalls/Breastwalls						
			6	6		
Greatest Height (m)		1.30				
Wingwalls						
			X	X		
(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	7	
Scour/Erosion				5	5	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)						
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)						
(Total Number of Bearing Piles : 12:12)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	24	0	0	0		
Now	24	0	0	0		
Pier Shaft/Piles				N	N	
Greatest Height (m)		4.00				
Bracing/Struts/Sheathing						
			6	6		
Nose Plate						
			6	6		
Stops 0.3m above water level.						
Paint/Coating						
				5	5	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	
Scour		6	6	
Debris (Y/N)	Yes			Old piles under spans.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
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	2012	Install 2 splice bolts, tighten loose nuts; replace 1 post.								
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	Repair approach rail - 5 rail sections & 7 TT posts to be replaced.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	60.0/56.7	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	LRA emailed to Donald Saunders on 01Aug2012.		Department Comments							
Maintenance Reviewed By			Date			Estimated Total	0			
Proposed Long-Term Strategy	2005.01.05 Monitor normal BIM. Caps should be good for 10+ years. Replace bridge by 2015.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	19-Apr-2014	Previous Inspection Date	27-Aug-2010							
Inspection Cycle (Default) (months)	21									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Install 2 splice bolts, tighten loose nuts; replace 1 post.	Programmed	2013		
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	Repair approach rail - 5 rail sections & 7 TT posts to be replaced.	Operations or while onsite if not already completed.	2013		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	60.0/56.7	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	LRA emailed to Donald Saunders on 01Aug2012.	Department Comments	DA
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Maintenance Reviewed By	Darron Ahlstedt	Date	27-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	2005.01.05 Monitor normal BIM. Caps should be good for 10+ years. Replace bridge by 2015.				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name			
Next Inspection Date	19-Apr-2014	Previous Inspection Date	27-Aug-2010		
Inspection Cycle (Default) (months)	21				

Comment	
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