

Bridge Inspection										
Bridge File Number	75422 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1964/1964				Lot No.	1				
Bridge or Town Name	OLDS				Inspector Name	Owen Salava				
Located Over	SPRUCE CREEK, 3.46.24, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	791:08 C1 8.143				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	25-Oct-2011				
Legal Land Location	SW SEC 32 TWP 33 RGE 27 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:48:29, 51:52:04				Data Entry Date	30-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA29				Review Date	14-Nov-2011				
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Chris Black				
AADT/Year	190 / 2010 (A)				Dept. Review Date	25-Jan-2012				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	3									
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 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	Double-sided only at SE & NW.									
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			8	8	Approaches @ both ends. In long sag curve.					
Vertical Alignment			7	7						
Roadway Width (m)	10.000				Recently paved.					
Approach Bump			5	8						
Guardrail (Y/N)	Yes				Insufficient posts/length. Incorrect lap at NE - photo. Missing splice bolts @ SE & NW - photo. Missing rail/post bolt @ SW - photo. Minor damage at NE, functions.					
Guardrail			7	6						
Length (m)	15.000									
Current Standard (Y/N)	No									
Termination Type	Turn Down									
Drainage			7	7						
Approach Road General Rating			7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 6.1, A-Ident Number:)					
Special Features					
Special Feature			X	File tags SE and NW.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			X	9	Recently paved; possible 2011. (Cracked grout connector pockets, typical - photo. 21Sep2009).
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	N	(Short longitudinal crack @ East side, South end - photo. 21Sep2009).
Deck Rideability			7	9	
Deck Joints			X	N	Buffer angles, covered by ACP.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Plow scrapes.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Double layer. Incorrect lap at NE to guardrail.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	2	
Girders			4	3	G4 & G10 with spall in one leg in AZ - photo. Multiple girders with longit. crack in legs.
Last Complete Inspection Date		25-Oct-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		9			
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	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 : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	New cap installed on top of existing cap & extended. Non-treated plywood used to shim cap to subcap for crown. Rating based on subcap.	
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			6	6		
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls						
			7	7		
Greatest Height (m)		2.50				
Wingwalls						
			6	6	Single pile wingwall.	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Some piles have spiral cracking.	
Last						
Now	0	0	0	0		
Piles			4	4		
Paint/Coating						
			X	X		
Abutment Stability						
			7	7		
Scour/Erosion						
			N	N	500mm scour under bridge. Flow against South backwall - photo.	
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						
			7	7	Struts.	
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	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				45 degree bend @ U/S. Meandering.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		8	8	
HWM (m below Top of Curb)	3.7			(1998/03/02)
Drift (Y/N)	No			
Slope Protection		N	N	South side under water.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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	2012	Armour against South backwall - 10m3 CL1.								
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Drill & install splice bolts for SE & NW (8).								
OTHER ACTION	2012	Install missing hazard markers to std.								
OTHER ACTION	2012	Redo NE splice lap.								
OTHER ACTION	2012	Install missing bolt @ SW guardrail - rail/post.								
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Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	61.4/58.9	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes	Estimated Total	0	
Special Comments for Next Inspection	Monitor spalled girder legs; no action.									
Maintenance Reviewed By	2006.09.12 Structure should provide adequate service for at least 10 more years with only routine maintenance.									
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam		Previous Assistant's Name							
Next Inspection Date	25-Jan-2015		Previous Inspection Date	21-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						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP	2012	Armour against South backwall - 10m3 CL1.	Operations	2012		
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2012	Drill & install splice bolts for SE & NW (8).	Operations	2012		
OTHER ACTION	2012	Install missing hazard markers to std.	Operations	2012		
OTHER ACTION	2012	Redo NE splice lap.	Operations	2012		
OTHER ACTION	2012	Install missing bolt @ SW guardrail - rail/post.	Operations	2012		
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OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	61.4/58.9	Est. Repl. Yr	2020	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Monitor spalled girder legs; no action.		Department Comments	Currently programmed in PMA for replacement in 2021. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	29-Oct-2012	Estimated Total	0
Proposed Long-Term Strategy	2006.09.12 Structure should provide adequate service for at least 10 more years with only routine maintenance.					
On 3-Year Program (Y/N)						

Proposed Action			
Previous Inspector's Name	Dave Lam	Previous Assistant's Name	
Next Inspection Date	25-Jan-2015	Previous Inspection Date	21-Sep-2009
Inspection Cycle (Default) (months)	39		
Comment			