

Bridge Inspection							
Bridge File Number	77578 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1965/1965			Lot No.	2		
Bridge or Town Name	BOUNDRY			Inspector Name	Owen Salava		
Located Over	SEVEN MILE CREEK, 6.159.17, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	734:14 C1 31.988			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	18-Oct-2012		
Legal Land Location	NE SEC 10 TWP 35 RGE 10 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-115:20:21, 51:59:43			Data Entry Date	09-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA18			Review Date	30-Oct-2012		
Clear Roadway/Skew	6.4 / 0 deg.			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	90 / 2011 (A)			Dept. Review Date	13-Nov-2012		
Road Classification	RCU-208G-90			Follow-Up By			
Detour Length (km)	150						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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	Off line, too high, not to standard.
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		4	4	In middle of horizontal curve. Cannot travel at design speed. Hill to the East.
Vertical Alignment		4	4	
Roadway Width (m)	7.000			Required due to steep sideslopes @ corners.
Approach Bump		6	6	
Guardrail (Y/N)	No			
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)	No			
Termination Type	NONE			
Drainage		7	7	
Approach Road General Rating		4	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 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 (%)	
Last					
Now	95.0	0.0	0.0	0.0	
Wearing Surface			X	X	(Failed connection evident by cracked grout pocket - photo. 23Nov2005).
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	50mm gravel covered 95%. Top abraided by gravel.
Deck Rideability			6	6	
Deck Joints			N	N	Buffer angles covered by gravel.
Bump (Y/N)		No			
Deck Drainage			5	5	Slightly hampered by gravel buildup.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Minor plow damage.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			4	4	Single layer with short splice - photo. Improper lap.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	4	Paint is failing - 20%, minor - defer action.
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			6	6	N curb has hairline vertical cracks. Most girders have narrow vertical cracks in end diaphragms (drift pin). Not visible.
Last Complete Inspection Date		18-Oct-2005			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	6	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)				Plus extended backwall.		
(Extended Backwall Piles Spacing(mm) : 900)						
(Total Number of Caps/Corbels : 1:1)				1 - 303x305 TT each abut.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : TREATED TIMBER)				Slight rotation to SE cap.		
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls				4	5	
Greatest Height (m)		2.80				
Wingwalls				4	4	
(Total Number of Bearing Piles : 5:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				4	6	
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 :)						
Pier Stability				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Curb)				(1.0m below bottom of girders. 06Jul2005).
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2013	Upgrade to double layer to meet standard.								
SEAL CURBS										
PATCH DECK	2013	RegROUT if pockets are deficient.								
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS										
WASHING	2013	Clean gravel off deck; inspect all grout pockets.								
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	2013	Install approach rail.								
OTHER ACTION	2013	Attach wingwall planks.								
OTHER ACTION	2013	Set HMs to standard.								
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	55.5/55.7	Est. Repl. Yr	2020	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	Dave Lam		Previous Assistant's Name							
Next Inspection Date	18-Jan-2016		Previous Inspection Date		23-Nov-2005					
Inspection Cycle (Default) (months)	39									
Comment										

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Upgrade to double layer to meet standard.	Defer			
SEAL CURBS						
PATCH DECK	2013	RegROUT if pockets are deficient.	Review when next on site			
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING	2013	Clean gravel off deck; inspect all grout pockets.	To Operations			
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	2013	Install approach rail.	To Operations			
OTHER ACTION	2013	Attach wingwall planks.	Next time on site			
OTHER ACTION	2013	Set HMs to standard.	To Operations			
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	55.5/55.7	Est. Repl. Yr	2020	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Regional need year indicated as 2020		
Maintenance Reviewed By	Andrew Smikles		Date	21-Jan-2013	Estimated Total	0
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	18-Jan-2016		Previous Inspection Date	23-Nov-2005		
Inspection Cycle (Default) (months)	39					

Comment	
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