

Bridge Inspection							
Bridge File Number	09478 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1966/1966			Lot No.	1		
Bridge or Town Name	DELIA			Inspector Name	Owen Salava		
Located Over	FARRELL CREEK, 21.1, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	851:06 C1 26.951			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	28-Jan-2011		
Legal Land Location	NW SEC 31 TWP 33 RGE 17 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-112:24:53, 51:52:50			Data Entry Date	03-Mar-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA21			Review Date	03-Feb-2011		
Clear Roadway/Skew	9.2 /			Dept. Reviewer Name	Chris Black		
AADT/Year	210 / 2009 (A)			Dept. Review Date	07-Mar-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	30						
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	Mounted off bridge.							
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	Intersection 150m N.
Vertical Alignment		9	9	
Roadway Width (m)	9.000			(2 splice bolts missing at NW & SW. 17Feb2009). Improper lap at SW. Insufficient posts
Approach Bump		5	7	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	17.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN END			
Drainage		7	7	
Approach Road General Rating		8	8	

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	0	0	0	0	
Now	5.0	0.0	0.0	0.0	
Wearing Surface			6	6	2 longitudinal cracks
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)					
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	Spalled at NW and SW (photos).
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			7	7	2 layers, splices between posts. 9 nuts still missing for post anchors. Some washers needed as well.
(Type : FLEX BEAM)					
Bridge Rail Posts		3	3		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	2	
Now	0	0	0	1	
Girders			3	3	G6 has spall in leg @ S AZ. G7 wide crack - 1 leg only. 8/11 girders have narrow shear cracks. G8-9,11 wide cracks in AZ both legs. G6 deck patches look poor. G9 spall mid-span. G11 in AZ, curb girder (photo). Curb lift pockets not grouted
Last Complete Inspection Date		28-Jan-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	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 : 3:3)				N subcap with minor rotation.	
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			5	5	Bulged wall behind leaning pile.
Greatest Height (m)		2.70			
Wingwalls			7	7	
(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				6	6
Paint/Coating				X	X
Abutment Stability			5	5	Spalled at dowels.
Scour/Erosion			5	N	(Scour hole under bridge. 17Feb2009). Ice.
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 :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		7	N	Snow covered.
(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		7	7	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
SEAL CURBS	2011	Patch at SW & NW posts.								
PATCH DECK	2011	Patch G6, previous repairs OH-V 1m3.								
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	2011	9 post nuts and washers								
OTHER ACTION	2011	Patch W curb & fill lift pockets, 0.4m3 OH-V.								
OTHER ACTION	2011	Patch G6 leg spall.								
OTHER ACTION	2011	2 splice bolts, correct lap for guardrail, if not yet done.								
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	65.6/65.9	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	Roads Strategy-Strategy to convert to culvert in 2016. RS									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name								
Next Inspection Date	28-Apr-2014	Previous Inspection Date	17-Feb-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	2011	Patch at SW & NW posts.	Programmed	2012		
PATCH DECK	2011	Patch G6, previous repairs OH-V 1m3.	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	2011	9 post nuts and washers	Programmed	2012		
OTHER ACTION	2011	Patch W curb & fill lift pockets, 0.4m3 OH-V.	Programmed	2012		
OTHER ACTION	2011	Patch G6 leg spall.	Programmed	2012		
OTHER ACTION	2011	2 splice bolts, correct lap for guardrail, if not yet done.	Operations, but programmed with other work.	2012		
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	65.6/65.9	Est. Repl. Yr	2020	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Tentatively programmed for replacement in 2016. AS		
Maintenance Reviewed By	Andrew Smikles		Date	30-Nov-2011	Estimated Total	0
Proposed Long-Term Strategy	Roads Strategy-Strategy to convert to culvert in 2016. RS					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name			
Next Inspection Date	28-Apr-2014		Previous Inspection Date	17-Feb-2009		

Inspection Cycle (Default) (months)	39
Comment	