

Bridge Inspection									
Bridge File Number	07699 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1964/1964				Lot No.	1			
Bridge or Town Name	DELIA				Inspector Name	Owen Salava			
Located Over	WOLF CREEK, 17.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	851:06 C1 9.348				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	28-Jan-2011			
Legal Land Location	NW SEC 8 TWP 32 RGE 17 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:23:27, 51:43:59				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	9.1 / -30 deg. (LHF)				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)	5								
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	SW is leaning.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	Plowed in W ditch.				Gas	Pipeline 100 m South.			
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Slight grades both S. and N.				
Vertical Alignment			7	7					
Roadway Width (m)	9.300								
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			3	3					
Length (m)	15.240				Wrong lap at SW. 2 split posts @ NW. - photo. Insufficient posts				
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): 8.5-8.5-8.5, 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			5	5	ACP is lower adjacent to curbs. 2 longitudinal cracks along girder lines. Random cracking
(Material Type : ACP)					
(Thickness(mm) : 100)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Likely buffer angles.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Hairline cracking. One spall SW corner of N span. Only 120mm of curb face.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Double layer flexbeam. Sliced btwn post at piers. (15 A/B with insufficient thread - 6 A/B nuts are loose. 17Feb2009). Post bases are snow covered.
(Type : FLEX BEAM)					
Bridge Rail Posts			4	N	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	7	
Now	0	0	0	2	
Girders			3	3	G9 & 10 are type G girders on 100mm steel shim all with wide cracks in AZ. S2 G6 has punchout at underside south end. S3 G11 has punchouts - curb girder. 9 girders haven narrow shear cracks. (Curb lift pockets not grouted. 17Feb2009).
Last Complete Inspection Date		28-Jan-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 33)					
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) : 1600)					
(Total Number of Caps/Corbels : 1:1)					
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 : STEEL)					
(Depth(mm) : 305)					
(Width(mm) : 305)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		1.90			
Wingwalls			6	6	
(Total Number of Bearing Piles : 10:9)					
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			4	4	
Some corrosion at caps.					
Abutment Stability			7	7	
Timber retaining wall at S hslp.					
Scour/Erosion			6	6	
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 1:1)					
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			8	8	
(Type : STEEL)					
(Depth(mm) : 305)					
(Width(mm) : 305)					
(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	
Pier Shaft/Piles			6	6	
Greatest Height (m)		4.10			
Bracing/Struts/Sheathing			6	6	
Nose Plate			X	X	
Paint/Coating			4	4	
Starting to rust & salt stains on caps.					
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		6	6	
Debris (Y/N)	Yes			(Old piles. 17Feb2009).
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Channel downstream leaves bridge on 45 deg. curve.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Tighten post nuts - extend A/B, if not yet done.					
SEAL CURBS	2011	Grout curb lift pockets, if not yet done.					
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	2011	Mill ACP to reduce deadload.					
OTHER ACTION	2011	Replace 2 guardrail posts					
OTHER ACTION	2011	Repair punchouts/spalls.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	68.6/66.5	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Review deadload, W/S is 2x normal thickness.		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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	28-Apr-2014		Previous Inspection Date	17-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							