

Bridge Inspection									
Bridge File Number	73665 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1961/1961				Lot No.	1			
Bridge or Town Name	ARDMORE				Inspector Name	Wade Nanninga			
Located Over	MURIEL CREEK, 7.5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	28:20 C1 6.081				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	09-Apr-2012			
Legal Land Location	SE SEC 9 TWP 62 RGE 3 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-110:23:31, 54:20:47				Data Entry Date	07-May-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA08				Review Date	17-Apr-2012			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	3,980 / 2011 (A)				Dept. Review Date	12-Jun-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 38 GIRDER	Semi	CS2 62 GIRDER	Train	CS3 89 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)	Yes								
Remarks	N ot to standard location.								
Other Sign Types	Muriel Creek. Bump								
Utilities (Located at)									
Utility Attachments									
Telephone	North r/w.				Gas				
Power	3 wires South r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Field approach to East.				
Vertical Alignment			9	9					
Roadway Width (m)	11.300								
Approach Bump			6	5					
Guardrail (Y/N)	Yes				30.4m @ NW & SE. 38.0m @ NE & SW.				
Guardrail			6	6					
Length (m)	30.400								
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 : HHO, 2 Spans, Lengths(m): 6.1-6.1, 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					
Wearing Surface			7	7	
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	(Galvanized buffer angles on both abutments. 16/Nov/2006) Paved over.
Bump (Y/N)		No			
Deck Drainage			5	5	
Drains Clogged (Y/N)		No			
Curbs/Median			4	5	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	4	Double layer flexbeam. Incorrect lap @ splices.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(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)	
Last					SP1G8 punchout - does not extend through to deck top. 30% girders have shallow cover and show rebar stains.
Now	0	0	0	3	
Girders			4	3	25/26 girders have medium cracks in AZ. 1/4 have stains. G4-S1 both legs. Numerous girder delams / spalls have been patched.
Last Complete Inspection Date		09-Apr-2012			
Cracking (Y/N)		Yes			S2 G5,6,8,9, with wide crack in AZ 2 legs with sound concrete.
Spalling (Percent Area)		1			SP1G12, SP1/2 g4 spall in 1 legs, crack in other leg with sound concrete.
Lift or Connector Pocket Grouted (Y/N)		Yes			SP1 G3,5,6,7,10,11 wide crack AZ 2 legs with sound concrete
(Number Of Girders : 26)					
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 : 2:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	4	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
Backwalls/Breastwalls			3	4	West abutment backwall not low enough.	
Greatest Height (m)		2.80				
Wingwalls			4	4	One broken plank @ W corner.	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				6	6	
Paint/Coating				X	X	
Abutment Stability				5	4	
Scour/Erosion				3	4	West abutment headslope eroding - photo. East abutment headslope eroding below backwall-losing fill.-photo
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	4	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
(Total Number of Bearing Piles : 8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	2		
Now				2		
Pier Shaft/Piles				3	3	
Greatest Height (m)		3.20				
6 Of 8 piles hhave steel sleeve and grout on lower 1/2.						
All piles strutted to abutment bearing piles with 152 x 203 TT. Three old piles along NE of pier.						
Pier piles appear to have been cored recently. Piles 4 & 5 rated "3" - photo. All other pier piles rated "4".14-Jul-2010						
HP cap & capitals rusting / peeling.						
Old piles and sheeting in West headslope.						
Pier piles 4 & 5 leaning.						
Based on coring.						
Bracing/Struts/Sheathing				4	4	One pier bracing cracked at waterline.-photo-14-Jul-2010
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		4	4	
Scour		5	N	
Debris (Y/N)	Yes			
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Curves west U/S.
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		3	4	East and West headslope eroding.-photo
(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		3	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair splice					
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	Move hazard markers.					
OTHER ACTION	2012	Replace					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	57.5/56.2	Est. Repl. Yr	2012	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Scheduled for repalcement with 2 SPCSP. Monitor pier piles, girders, headslope. Inspect @ 12 month cycles until structure is replaced.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	09-Jan-2014		Previous Inspection Date	14-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							