

Bridge Inspection										
Bridge File Number	71316 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1962/1962				Lot No.	2				
Bridge or Town Name	ARDMORE				Inspector Name	Kris Bosters				
Located Over	BEAVER RIVER, 7, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	892:02 C1 18.124				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	05-Jan-2012				
Legal Land Location	SW SEC 12 TWP 63 RGE 4 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	::, ::				Data Entry Date	04-Feb-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA08				Review Date	19-Jan-2012				
Clear Roadway/Skew	13 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year					Dept. Review Date	14-Feb-2012				
Road Classification	RCU-210-110				Follow-Up By					
Detour Length (km)	26									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS230						----> 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									
Other Sign Types									

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	In west curb conduit.				Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks	No sleeves across deck joint.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curves at each end, no passing in sag curve, crest curve both ways, grades approx 5%.				
Vertical Alignment			6	6					
Roadway Width (m)	12.100								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			4	4	Broken post in NW turndown.-photo				
Length (m)	42.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	N	Gravel windrows impede drainage @ South. End drains and rock basin constructed.-30-Nov-2010 Too much snow to view.				
Approach Road General Rating			6	6					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : RB, 3 Spans, Lengths(m): 26.2-32.9-26.2, A-Ident Number: A0418-01)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.		
Last	25	0	0	0			
Now	25.0	0.0	0.0	0.0			
Wearing Surface			9	8			
(Material Type :)							
(Thickness(mm) :)							
Deck Top			N	N			
Deck Rideability			8	8			
Deck Joints			9	8			
Temperature (deg. C)		-2					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
80		North - A2					
80		South - A1					
Deck Drainage			7	N	Leakage corrosion and staining due to past deck joint. To much snow to view.		
Drains Clogged (Y/N)		Yes					
Curbs/Median			N	N	(Cracked at most post anchor locations. Finish is peeling at various locations along face. Stirrups rusty with spalls @ NW approach. Medium to wide transverse cracking @ 500mm spacing.)05-May-2009 Snow covered.		
(Curb Type : Standard)							
Scaling (Percent Area)		10					
Bridge Rail			7	7	(All post grout pads cracked, 1 grout pad delam - photo. 5% of anchor bolts have undersized nuts/insufficient thread. Missing 1 nut on anchor bolt.)05-May-2009 Base of posts snow covered.		
(Type : GALVANIZED STEEL BRIDGE TUBE)							
Bridge Rail Posts		3	N				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating			7	7			
(Type : GALVANIZED)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate		3	3	(Most girders have sag, worst is S2G7, est 20mm sag. 1 cover plate crack indications, S1 South end.-05-May-2009			
Flange		7	7				
Web		2	2	Eight fatigue cracks @ tops of mid span diaphragms. See cover plate inspection 2009 for details.-05-May-2009			
Stiffeners		3	3				
Splice		7	7	1 cover plate weld & 5 diaphragms have cracks either in or beside weld.)05-May-2009			
Weld		2	2				
Diaphragms/Cross Frame			2	2	(2 rating due to causing cracks in webs.)05-May-2009		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 26.2-32.9-26.2, A-Ident Number: A0418-01)				
Paint Condition		5	5	Ends of girders have been repainted. Bottom flanges have coating failure, no corrosion damage.
(Colour Description : RED)				
(Colour Code : 21310)				
Touchup Required (Y/N)	Yes			
Bearings		4	4	Bearings have been metalized. Span1 G1-G2 Neoprene has cracks/splits. Abut bearings have cracked welds on stainless plate.
Temperature (deg. C)	-2			
(Expansion Type : REINFORCED PAD BEARING;STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN;ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Transverse cracks and 10% efflorescence @ 500mm staining along east and west sides between the first three girders. Random map cracking S3 with 70% efflorescence. Large spalls & delaminations S1 underside.
Stains (Percent Area)	3			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		2	2	Carried over-distortional fatigue cracks @ stiff/web.
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		3	4	Coating peeling off abutments. Asphaltic coatings failed.
Abutment Stability		7	7	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		5	5	Massive concrete, narrow vertical cracks at various locations at both piers. Medium crack along P1W construction joint.
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Rusty.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Large drift between P2 and toe of North headslope
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	Minor sloughing D/S.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	Natural South side only. North toe has rip rap. Silt fences on headslope.
(Type : NATURAL; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Next Inspection Date	05-Apr-2015	Previous Inspection Date	30-Nov-2010
Inspection Cycle (Default) (months)	39		
Comment			