

Bridge Inspection									
Bridge File Number	73825 E-1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1978/1978				Lot No.	2			
Bridge or Town Name	BROOKS				Inspector Name	Tom Carey			
Located Over	EID - BANTRY CANAL, WATERCRS-IC				Inspector Class	BR CLS A			
Located On	1:18 R1 15.765				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Feb-2012			
Legal Land Location	SE SEC 26 TWP 18 RGE 14 W4M				Data Entry By	Anne Roberts			
Longitude, Latitude	-111:49:04, 50:32:53				Data Entry Date	24-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23				Review Date	26-Feb-2012			
Clear Roadway/Skew	13.7 / 30 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	7,280 / 2011 (A)				Dept. Review Date	29-Mar-2012			
Road Classification	RFD-412.4-130				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	"Bantry Canal" @ SW corner								

Utilities (Located at)									
Utility Attachments									
Telephone	S ditch-fibre optic				Gas	Crossing 50m East			
Power	5 W crosses roadway 200m W.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8					
Vertical Alignment			7	7					
Roadway Width (m)	12.800				SE approach patched				
Approach Bump			4	5					
Guardrail (Y/N)			Yes		Missing 2 splice bolts at SW and wrong lap @ SW and NE				
Guardrail			4	4	Not thriebeam New guardrail				
Length (m)			99.000						
Current Standard (Y/N)			No						
Termination Type			TURNED DOWN						
Drainage			4	4	Undermining at NE and SE				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 9.1-10.7-9.1, A-Ident Number:)					
Special Features					
Special Feature			7	(Installed in '91 - 940428). Load sharing bracing on underside of girders	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	(Chipseal on epoxy on concrete) Patched @ SW Transverse cracks over piers Logitudinal cracking @ 1st girder N of C/I @ Span 3 Spalling along girder lines at Sp1
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	4	Koch joints ACP covered, cracks in joints
Bump (Y/N)		No			
Deck Drainage			6	4	Active leakage between girders at S1 and S2
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Light scaling
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			7	7	
(Type : BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(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	0	
Now	0	0	0	0	
Girders			5	4	Hairline longitudinal cracks NW Lift hook not grouted 10 mm deep scaling at bottom of S2 girders at 5090 G4S2 wide crack at South side and span at North side at Midspan. Girders rated 4 due to no corrosion staining at cracks or spalls and load sharing bracing installation.
Last Complete Inspection Date		15-Feb-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		10			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(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				6	6	
(Type : CONCRETE)						
(Depth(mm) : 450)						
(Width(mm) : 450)						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.00				
Wingwalls				6	6	
					Minor spall at SW	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	10	0	0	0		
Now	10	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				4	4	
					300mm deep undermining @ SE & NE	
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				6	4	
(Type : CONCRETE)						
(Depth(mm) : 700)						
(Width(mm) : 450)						
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		3.20				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				5	5	
(Colour Description : GREEN)						
(Colour Code : 14090)						
					Minor corner spall @ South end West pier cap and spalled at South end of East pier cap - with exposed rebar.	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	N	Ice
Debris (Y/N)	Yes			Old concrete piles and rebar at North headslopes
Substructure General Rating		6	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM Not visible
Drift (Y/N)	No			
Slope Protection		6	6	Cl. 1 and 1m at canal Natural and Cl. 1 under bridge
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Seal cracks in deck					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair abut headslope undermining - 3m3 granular and 3m3 class 1 rock					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Grout NW Lift Pocket					
OTHER ACTION							
OTHER ACTION	2012	Repair spall at South end East pier.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/44.4	Sufficiency Rating (Last/Now) (%)	62.7/55.9	Est. Repl. Yr	2022	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	15-Nov-2013		Previous Inspection Date	15-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							