

Bridge Inspection							
Bridge File Number	07097 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1960/1960			Lot No.	2		
Bridge or Town Name	ORION			Inspector Name	Jon Davies		
Located Over	COAL CREEK, 11.4, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	887:02 C1 2.602			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	20-Jun-2012		
Legal Land Location	NW SEC 31 TWP 3 RGE 6 W4M			Data Entry By	Lauren Korte		
Longitude, Latitude	-110:48:47, 49:15:20			Data Entry Date	25-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA24			Review Date	01-Jul-2012		
Clear Roadway/Skew	8.1 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	90 / 2011 (A)			Dept. Review Date	30-Jul-2012		
Road Classification	RCU-208-110			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 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 req.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks								
Other Sign Types	"Slippery when wet" Caution North and South.							

Utilities (Located at)			
Utility Attachments			
Telephone	West side conduit.		Gas
Power	Single line East side.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	
Vertical Alignment		8	8	
Roadway Width (m)	8.200			Gravel road.
Approach Bump		6	5	
Guardrail (Y/N)	Yes			
Guardrail		X	8	Not thriebeam.
Length (m)	15.200			
Current Standard (Y/N)	No			
Termination Type	TURN DOWN			
Drainage		7	7	
Approach Road General Rating		8	8	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PG, 1 Spans, Lengths(m): 6.1, A-Ident Number:)					
Special Features					
Special Feature		3	4	In the SW corner not bearing on all piles evenly. Has been blocked. Not good bearing or adequate contact.	
(SType : ADD ABUT BENT)					
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		X	X		
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)					
Deck Top		5	5	G7 cracked at North end and moderate abrasion.	
Deck Rideability		7	6		
Deck Joints		6	3	Buffer angles. Missing at G9 North.	
Bump (Y/N)		Yes			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		5	5	Spall @ NE corner. S.W. & S.E.- minor.	
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail		4	8	Double layer. Paint peeling AT.	
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts		7	7		
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating		4	4		
(Type : PAINT)					
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		4	4	Wide cracks in AZ with unsound concrete in in one leg at G9. 5 grout pockets starting to spall.	
Last Complete Inspection Date		20-Jun-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 10)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating		4	4	1 point bump for PG girders.	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500;1300)						
(Total Number of Caps/Corbels : :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	SW corner not bearing fully.	
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls			4	4	Driven sheathing does not align with piles at both abuts.	
Greatest Height (m)		2.30				
Wingwalls			5	5	Brace damaged at NW.	
(Total Number of Bearing Piles : 9:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	4 additional piles at SW corner with 200 x 500 short cap but is not bearing on piles completely.	
Last	0	0	0	3		
Now	0	0	0	0		
Piles				3	4	
Paint/Coating				X	X	
Abutment Stability				3	4	
Scour/Erosion				6	5	
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		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				None visible.
Drift (Y/N)	No			
Slope Protection		7	5	
(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		8	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
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	Replace or remove buffer angle at G9 North.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	62.3/59.6	Est. Repl. Yr	2015	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	20-Sep-2015		Previous Inspection Date	14-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							