

Bridge Inspection											
Bridge File Number	06777 -2 Bridge				Form Type	PCS					
Year Built/Year Supstr	2006/2006				Lot No.	1					
Bridge or Town Name	ORION				Inspector Name	Jon Davies					
Located Over	IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B					
Located On	61:06 C1 25.822				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	28-Mar-2013					
Legal Land Location	SW SEC 31 TWP 5 RGE 6 W4M				Data Entry By	Lauren Korte					
Longitude, Latitude	-110:48:47, 49:25:32				Data Entry Date	08-Apr-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA24				Review Date	07-Apr-2013					
Clear Roadway/Skew	8.2 / -45 deg. (LHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	160 / 2012 (A)				Dept. Review Date	22-Apr-2013					
Road Classification	RAU-209-110				Follow-Up By						
Detour Length (km)	19										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> Primary Span	

Posting Information										
Required Load Posting (t)	Single			Semi			Truck Train			
Posted Loading (t)	Single			Semi			Truck Train			
Posted:	Lane	WB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)	
Posted:	Lane	EB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)	
Remarks	Not req.									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types	Caution slippery surface both directions									

Utilities (Located at)										
Utility Attachments										
Telephone	West row				Gas					
Power	West row				Municipal					
Others					Problem (Y/N)			No		
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		9	9	Thriebeam					
Vertical Alignment		7	7						
Roadway Width (m)	9.000								
Approach Bump		7	6						
Guardrail (Y/N)	Yes								
Guardrail		9	9						
Length (m)	45.000								
Current Standard (Y/N)	Yes								
Termination Type	Turned Down								
Drainage		8	8						
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 3 Spans, Lengths(m): 10-10-10, A-Ident Number:)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(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			8	6	
(Material Type : MIX TYPE 1 ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	7	
Deck Joints			N	N	
Bump (Y/N)		No		Paved over	
Deck Drainage			9	9	
Drains Clogged (Y/N)		No			
Curbs/Median			X	X	
(Curb Type : Standard)					
Scaling (Percent Area)				plinths - no curbs	
Bridge Rail			9	9	
(Type : GALVANIZED STEEL THRIE BEAM)					
Bridge Rail Posts			3	3	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	8	0	0	1	
Now	16	0	0	3	
Girders			3	3	
Last Complete Inspection Date		13-Sep-2009			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 24)					
S2 Girders not inspected due to high water and thin ice. Sp. 1, Sp. 2, Sp. 3-G1 curb girder exterior fascia heavy scaling- 600mm x 200mm x 20mm S3- G8 Curb girder wide crack and spall near pier bearing- spall 75mm x 150mm x350 mm - worst location G1 & G8 girders at Sp. 1 & 2 have similar cracks and spall at ends. Lift or connector pocket grouted not confirmed- paved over.					
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) : 2322)					
(Total Number of Caps/Corbels : 2:2)				Galvanized steel caps	
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) : 310)					
(Width(mm) : 620)					
Backwalls/Breastwalls			8	8	
Greatest Height (m)		1.00			
Wingwalls			8	8	
(Total Number of Bearing Piles : 6:6)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles			8	8	
Paint/Coating			8	8	
Galvanized					
Abutment Stability			8	8	
Scour/Erosion			8	8	
Piers/Bents					
(Type : PIER-COLUMN)					
Double wide caps					
(Total Number of Caps/Corbels : 2:2)					
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) : 310)					
(Width(mm) : 620)					
(Total Number of Bearing Piles : 6:6)					
15- June 2011					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Pier Shaft/Piles			8	8	
Greatest Height (m)		4.00			
Bracing/Struts/Sheathing			8	8	
Nose Plate			8	8	
Paint/Coating			8	8	
galvanized					
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	N	PR 8
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		8	8	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair at bridge rail post bases					
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	2013	Concrete repair and patch near pier bearing Span 1-3 All G1 & G8 girders Estimate 1.0m3 concrete					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	66.8/66.8	Est. Repl. Yr	2060	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	Jon Davies		Previous Assistant's Name				
Next Inspection Date	28-Dec-2014		Previous Inspection Date	15-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							