

Bridge Inspection							
Bridge File Number	07208 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1964/1964			Lot No.	2		
Bridge or Town Name	ORION			Inspector Name	Jon Davies		
Located Over	TRIBUTARY TO PEIGAN CREEK, 2.7.1.13.2, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	887:04 C1 14.761			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	25-Jun-2012		
Legal Land Location	NE SEC 25 TWP 7 RGE 7 W4M			Data Entry By	Lauren Korte		
Longitude, Latitude	-110:49:06, 49:35:41			Data Entry Date	25-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA24			Review Date	09-Jul-2012		
Clear Roadway/Skew	8.4 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	230 / 2011 (A)			Dept. Review Date	30-Jul-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 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	

Utilities (Located at)			
Utility Attachments			
Telephone	West ROW.	Gas	
Power	1-LINE 250M E.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Road curves 150m North. Hill to South.
Vertical Alignment		5	5	
Roadway Width (m)	8.400			23 m at SE. Not thriebeam.
Approach Bump		7	8	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	15.200			
Current Standard (Y/N)	No			
Termination Type	TURN DOWN			
Drainage		7	5	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	8	
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	8	
Deck Joints			N	N	ACP covered.
Bump (Y/N)		No			
Deck Drainage			7	6	Bridge slopes to North.
Drains Clogged (Y/N)		No			
Curbs/Median			3	6	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Double layer. Corrosion at posts.
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts		6	6		
(Type : GALVANIZED POST STEEL; GALVANIZED 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	Long crack w/ spalling mid span 1 leg both curbs, some drift pin spalls, 4 units shallow spall over pipes from handling when new caps installed. 11 girders with wide cracks with unsound or spall in AZ of 1 leg only.
Last Complete Inspection Date		24-Jun-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		6			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)				Slight indentation of some units North cap only (2mm). No deformation from piles- (sounds ok) Subcap sits on 1 pile South, North abut.		
(Extended Backwall Piles Spacing(mm) : 1300)						
(Total Number of Caps/Corbels : 3:3)						
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				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 356)						
Backwalls/Breastwalls				4	4	
Greatest Height (m)		1.20				
Wingwalls				6	5	
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles				6	5	
Paint/Coating				X	X	
Abutment Stability				6	5	
Scour/Erosion				5	5	
Erosion-hollow behind SW, NW & SE 1/2 of backwalls, minor erosion South headslope.						
Piers/Bents						
(Type : PIER-COLUMN)						
Petrotac & steel brg plates.						
(Total Number of Caps/Corbels : 3:3)						
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				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				5	5	
Greatest Height (m)		4.00				
Bracing/Struts/Sheathing				6	6	
Nose Plate				X	X	
South pier bent-East side,first 2 piles, deep checking. 2 piles appears to be slightly bowed.						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	5	
Scour		7	6	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				BARB WIRE FENCE ON D/S END. WILLOWS @ END OF BRIDGE D/S & U/S END.
(D/S Direction : W)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	Yes			
Slope Protection		5	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		5	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 1 tin cap at NE.					
OTHER ACTION	2012	Repair South backwall- 2- 3x12x12' T.T					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	62.9/62.0	Est. Repl. Yr	2020	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	25-Sep-2015		Previous Inspection Date	15-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							